

THE BULLETIN

AUGUST 21, 1995 ~ 49TH YEAR ~ NUMBER 2

Chalmers Gift Gives Boost to Engineering Design

BY SUZANNE SOTO

U OF T HAS ESTABLISHED TWO chairs in engineering design in the Department of Mechanical Engineering and appointed two senior faculty members to the posts.

Professor Ron Venter, vice-dean of the Faculty of Applied Science & Engineering, will be the first holder of the Clarice Chalmers Chair of

Engineering Design. Professor Shaker Meguid, director of the Engineering Mechanics & Design Laboratory of the Department of Mechanical Engineering, will hold the Wallace G. Chalmers Chair of Engineering Design.

"Engineering design," Venter explained, "is the creative integration of fundamental scientific principles with a knowledge of modern materials to

engineer functional products or processes of value to society." The ability to create new solutions through good design is an essential component of the education of an engineer and is increasingly used in business strategies of successful industries, he added.

Wallace and Clarice Chalmers and

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SPACE RACE

Five U of T scientists, three hours and some quick thinking helped save the Apollo 13 mission

BY ALIDA MINCHELLA

THE PHONE CALL FOR BARRY FRENCH CAME during a staff meeting and for the next three hours or so the world would revolve around calculations and hastily drawn diagrams on a chalk board.

That was more or less how much time five scientists at the Institute for Aerospace Studies were given to help bring back three Apollo 13 astronauts from terra incognita to terra firma. With the recent release of the movie *Apollo 13*, interest in the near-disastrous space mission 25 years ago has been renewed but few people know that U of T played a major role in bringing the stranded men back. Professors Ben Erkin, Philip Sullivan, Rod Tennyson, Irvine Glass and French

created an ad hoc problem-solving team by pooling their expertise.

The voice on the other end of the phone line in April 1970 belonged to a representative from Grumman, one of the lunar project's major contractors. The man, familiar with some of the work at the institute, had called for counsel. An oxygen tank in Apollo's command module had exploded on the way to the moon, leaving the astronauts without oxygen and the vessel with a gaping hole. Fred Haise, James Lovell and Jack Swigert were forced to take refuge in the lunar module, the tiny

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INSIDE

Motivated

THE NEW PRESIDENT OF THE Council of Ontario Universities is ready for action. *Page 5*



Stirred

RECENT EVENTS AT UBC HAVE moved two psychology professors to reflect on the state of academic freedom. *Page 7*

Gifted

THE THOMAS FISHER RARE BOOK Library — a gift in itself — is displaying gifts from friends. *Events. Page 9*

Scarborough College May Break Mould

BY JANE STIRLING

SCARBOROUGH COLLEGE COULD gain more independence if the University adopts a new funding philosophy at its eastern campus.

Responsibility centred management (RCM) is a fancy word for a process that gives faculties, divisions or colleges more control over budget revenues and costs. "It gives them full responsibility for their income and expenses," said Provost Adel Sedra in an interview. "They must live within their means."

Sedra and Scarborough principal Paul Thompson have been examining the college's academic plans with an eye to RCM. A number of US universities including Vanderbilt and UCLA are moving towards this type of budget process, Sedra said. The plan will likely be ready by mid-autumn but it will not proceed unless it receives the approval of the college's senior administrators. "Scarborough will have a choice, it won't be forced on them," Sedra said. If endorsed at Scarborough, the plan will go through U of T's normal budget approval process.

The proposal does not call for the University to relinquish total control of Scarborough. It would ensure the college maintained high academic standards, said Deputy-Provost Carolyn Tuohy. There would be no change in regulatory or governance structure, programs would still be approved by the Committee on Academic Policy & Programs and faculty appointments would be subject to the Policy & Procedures on Academic Appointments.

Thompson said current divisional budget allocations are based largely on salary costs and University-wide budget reductions; enrolment plays a minor role. Responsibility centred management places a much larger emphasis on student complement. While this plan is not being considered for the University as a whole, certain divisions might consider it if the pilot project is successful, Tuohy said.

Thompson said that by focusing on enrolment strategies, Scarborough could benefit in a number of ways. For example, increased enrolment

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COUNTDOWN



ANDREA SORIC/JON

You definitely have to be a rocket scientist to know the ins and outs of jet propulsion as these budding aerospace engineers have discovered. Alicia Majewski, 11, and Peter Neelands, 10, are ready to try their modest rocket launcher at U of T's summer Mini University, watched over by instructor/student Barb Kral. The mini-u program, which combines academics and sports, and the various sports camps wrapped up Aug. 11. A highlight of this year's baseball camp was a surprise visit by Blue Jays second baseman Roberto Alomar who demonstrated the finer points of fielding and hitting.

LIZARD ON THE LOOSE

THE ARTS AND SCIENCE STUDENT WAITING TO WRITE HIS EXAM AT Derry College was very polite about the whole thing. "Excuse me," he said, lightly tapping Elizabeth Leesti on the shoulder. "There's a lizard in the hall."

The associate faculty registrar, supervising exams in mid-August with chief presiding officer Ken Derry, walked over to take a look. Sure enough, a 16-inch reptile was resting comfortably on the cool floor of Arthur Kruger Hall, oblivious to the 150 students ready to start their papers. "It was a great, big, old, bright green iguana," said Leesti. "At first I thought it was a plastic one because he was so immobile."

Not knowing the first thing about common green iguanas, Leesti was leery about making its acquaintance. "I was terrified of it. I didn't know if it would spit, scratch or bite." Nevertheless she and Derry decided to evict the uninvited interloper and gently shoved it outside before she went in search of a box it could temporarily call home. By the time she returned, the rambling reptile was nowhere to be seen. "I just thought I had signed the poor creature's death warrant. Since it isn't native to this area, I didn't know if it would be able to survive."

A thorough search found it halfway up a small tree behind the college but when Derry grabbed the rear legs, the little lizard got away. It squirted through a fence that backs onto the tennis courts, taking the players by surprise. Finally it was cornered — long enough to be put in a box.

The little veterinarian, missing the tip of its tail, is in good physical health despite its urban adventure and was taken to the Toronto Humane Society. No one knows where it came from but its well-fed appearance suggests it had a good home, said an official from the animal shelter. Its owner had until yesterday to claim it before it would be put up for adoption.

IN BRIEF



Deputy minister of education named

SEASONED CIVIL SERVICE VETERAN RICHARD DICERNI HAS BEEN appointed deputy minister of education and training. Prior to his appointment he was deputy minister of environment and energy. He also served as acting deputy minister of intergovernmental affairs, a position he will continue to hold. Dicerri joined the Ontario public service in 1992; earlier he worked for the federal government for 20 years where his most recent post was deputy secretary to the Cabinet, Federal Provincial Relations Office. Born and raised in Montreal, he holds a BA from the College Stc. Marie and a master's degree in public administration from Harvard. Dicerri replaces Charles Pascal.

Stamp of approval

A PAINTING THAT IS PART OF HART HOUSE'S PERMANENT ART collection is featured on one of Canada Post's newest set of stamps. *Open Window* painted by Frederick Varley around 1932 is one of 10 paintings that appears on the face of the 43-cent stamps. Canada Post issued the special set in June to commemorate the 75th anniversary of the formation of the Group of Seven. The set depicts a painting from each of the seven original members and three who joined later. *Open Window* is usually on display at the Hart House Justina M. Barnicke Gallery during the fall or winter; this year, however, it is part of a travelling display organized by the National Gallery in Ottawa to celebrate the Group of Seven.

Polish history chair created

THE POLISH COMMUNITY HAS RAISED THE MONEY TO FUND A CHAIR of Polish studies in the Department of History. Since the late 1980s the Canadian-Polish Congress has spearheaded the community's fundraising efforts to make possible the teaching of Polish history at U of T. Instruction began last year. Now the University has received a bequest from Konstanty Rymont, an officer in the Polish army during the Second World War and an Ottawa resident at the time of his death. The gift increased the size of the Polish endowment to more than \$1 million, allowing the University to recruit a senior scholar of Polish history, probably by June 1996. At the same time the endowment ensures that Polish history is taught at the University in perpetuity. Meanwhile the congress hopes to create a permanent research fund in Polish history and, if possible, expand Polish studies in the Faculty of Arts & Science.

Higgins retires from U of T coaching

ANDY HIGGINS, HEAD COACH OF THE VARSITY BLUES TRACK and field program since 1971, has taken early retirement. A 1959 graduate of the School of Physical & Health Education, Higgins also holds a BA, BEd and master's degree in education, which he received from U of T in 1977. Under his guidance Blues intercollegiate teams won 65 Ontario league championships in indoor and outdoor track and field and cross country and 10 national university championships. Higgins coached many Olympic athletes including decathletes David Steen and Michael Smith. He and his partner Linda Hall have formed a company to work with corporations and individuals seeking to achieve their highest potential.

Perron heads SSHRC committee

PROFESSOR PAUL PERRON, CHAIR OF THE DEPARTMENT OF FRENCH, HAS been named chair of the committee on interdisciplinary and multidisciplinary studies at the Social Sciences & Humanities Research Council for a one-year period, effective immediately. The committees of the council meet once a year to assess grant applications; many of the 70 to 90 heard by this group annually connect diverse disciplines, Perron said. "What's fascinating is how links are being made that are in no way obvious and at the same time how these kinds of links can generate new knowledge." Perron has been a member of the committee for the last two years.

Personal safety position will be reviewed

SUSAN ADDARIO, U of T's PERSONAL SAFETY AWARENESS OFFICER, WILL move to the Office of Student Affairs as of Sept. 15 when she becomes executive assistant to David Nelands, assistant vice-president (student affairs). A review of the personal safety position will be undertaken to determine whether it will be filled. Addario was a research associate in the Centre of Criminology from 1981 to 1990 before her appointment as personal safety officer. In January 1993 she was seconded for one year to the provincial criminal justice system as director of research of the commission on systemic racism.

IN MEMORIAM

Robson Edited Mill Project

UNIVERSITY PROFESSOR Emeritus John Robson of the Department of English died July 9. He was 68.

Born in Toronto in 1927, Robson received his BA in 1951, MA in 1953 and PhD in 1956, all from U of T. After teaching at University College, UBC and the University of Alberta, he joined the Department of English at Victoria College in 1958, serving as principal of the college from 1971 to 1976.

A specialist in 19th-century literature, Robson published numerous books and articles, including 33 edited volumes of the *Collected Works of John Stuart Mill*. Robson began work on the U of T Press project in 1959 and finished with the final volume in 1991. He also edited the *Hmannu Report*, a satirical look at the University and the city, and was a frequent contributor of columns and reviews, both serious and humorous, to Toronto newspapers.



Robson was an active member of the University community. At one time or another he was either a member or chair of countless committees at both Victoria and U of T including the Dean's Advisory Committee on Admission to the Graduate Faculty and the Manuscript Review Committee of U of T Press, a position he held for almost 20 years. He was elected to the Royal Society of Canada in 1974

and was awarded the society's Chauveau Medal in 1989. In 1986 he was named University Professor, becoming University Professor Emeritus on his retirement in 1992. He received research fellowships from the Humanities Research Council, the Canada Council, the Guggenheim Foundation and the Connaught Committee.

Aside from being an excellent teacher and scholar, Robson was a very warm person, said Professor Alexandra Johnston, a former student and colleague in the English department. "He had a wonderful sense of the ridiculous. He delighted in things that were slightly silly," she said. "He could always see the really absurd part of life."

Johnston recalls one year while he was principal Robson, a 30-year champion, gave a demonstration at a college-organized variety show. "It was these kinds of things that really endeared him to people."

Gift Boosts Engineering

- Continued from Page 1 -

other members of their family initiated and have over the years significantly contributed to the \$2 million fund supporting the chairs. Their gift is matched by the University under its matching endowment policy.

Clarice Chalmers said it was her husband's great wish "that in the years to come we will graduate from the University of Toronto the design engineers of Canada. The establishment of these chairs is a major opportunity for our Canadian engineering students to participate in and to learn of the value and excitement that is engineering design."

Wallace G. Chalmers, who died in 1987, graduated from U of T's mechanical engineering program in 1950. An automotive engineer, he was a talented and creative designer. In 1970 he founded and became president of Chalmers Suspensions International Ltd., a Montreal-based manufacturing company which produced the Chalmers Suspension System for heavy trucks. Chalmers told the *U of T Magazine* in 1987 that the system — which lowered trucks' maintenance costs, kept truck drivers more comfortable on their rides and became an internationally successful product — consisted of a

"rubber" spring that sat on a free-floating beam in a tandem axle system. Chalmers sold the company in 1973 and moved to Toronto four years later.

In the 1980s he and his wife helped fund the establishment of the University's Creative Design Research Unit which gives mechanical engineering students an oppor-

tunity to work on joint projects with students at Ryerson Polytechnic University and the Ontario College of Art. In 1986 Clarice Chalmers also established the Wallace G. Chalmers Engineering Design Awards for students who demonstrate keen awareness of the importance of design in engineering education.

Scarborough College

- Continued from Page 1 -

could result in increased income from government funding and tuition fees. The college might also choose to change the ratio of graduate and undergraduate students; it could focus on four-year undergraduate degrees; and it could cut costs by more closely matching programs and courses to student interests.

The system encourages greater entrepreneurial possibilities, Thompson said. With more control over its budget the college would be in a better position to assess the merits of certain university-business ventures and could offer more courses for business professionals. There would also be a greater emphasis on development efforts, he said. "We would have to be far more sensitive to

securing private funding support. Tuition and government grants are increasingly inadequate."

In addition the college would be able to assess the value of certain University services such as those provided by facilities and services and, if justified, explore alternative ways of securing the service, Thompson said.

Although responsibility centred management has many advantages, Thompson is also aware of potential pitfalls. A dramatic decrease in enrolment in any given year or a change in the government's funding formula could leave the college financially vulnerable. "We could build in a buffer to bank money against these difficulties. There is a level of exposure but I think it's manageable."

September Bulletins

THE PUBLICATION DATES FOR the September issues of *The Bulletin* are Sept. 5 and Sept. 18. The deadline for receipt of events and booking of display ads for the Sept. 5 issue is Aug. 21; for the Sept. 18 issue, Sept. 5. Editorial material and classified ads for the Sept. 5 issue should be in *The Bulletin* offices at 21 King's College Circle, second floor, by Aug. 25; for the Sept. 18 issue, by Sept. 8. Subsequent issues will appear on the following dates: Oct. 2, Oct. 23, Nov. 6, Nov. 20 and Dec. 11.

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Graham Elected for Third Term

TWO FORMER PRESIDENTS OF the U of T Faculty Association were contenders for another chance at the top spot with Bill Graham coming out ahead.

Graham, a professor of philosophy, defeated Fred Wilson, also a philosophy professor, in an election July 21. This is Graham's third term as president. He held consecutive one-year terms from 1992 to 1994. Graham was also president of the Ontario Confederation of University Faculty Associations for three consecutive terms from 1989 to 1992.

Graham identified several key issues that will be on his agenda for the duration of his term in office — until

June 30. Foremost is dealing with stringent provincial government cutbacks for universities, he said. Another issue is the resumption of collective bargaining following the expiry of the social contract in April. "Faculty have not had an increase in across-the-board salaries for three years," he said. "We will be looking for improvement in salary conditions."

Pensions are also expected to be a contentious issue because of federal government plans for a clawback in the Old Age Security Pension and possibly the Canada Pension Plan. This would have a significant impact on current and future retirees, Graham said.

A growing concern among academics across the country is the bruising taken by academic freedom and tenure. "When there are stringent financial circumstances and there is a repressive mood in the country, pressure is put on academic freedom," Graham said. "Research is also affected. Is there pressure to move to more commercially directed research?"

The presidency fell vacant in June after Peter Boulton stepped down for personal reasons. Boulton had been acclaimed to a second term in April. About 800 faculty members and librarians cast ballots in the election, said Suzie Scott, UTFA's executive director.

Scholarship Considered in Funding

BY KARINA DAHLIN

A REPORT ISSUED THIS MONTH by the minister of education is recommending a new way of funding universities.

The report — Advisory Memorandum 95-III, Resource Allocation for Ontario Universities — is written by the Ontario Council on University Affairs, an advisory body to the minister. In 1993 the council was asked to review the university funding system and consider issues such as increased accessibility, stronger emphasis on teaching and enhanced cooperation among colleges and universities.

After issuing a discussion paper last August, OCUA conducted public hearings and received more than 300 written and oral submissions including ones from U of T's administration as well as faculty, staff and alumni associations. The council's report was delivered in June to John Snobelen, the new minister of education and training.

Joy Cohnstet, council chair, said the document is seen as a framework for a new funding formula, not as the final word. It proposes, said Martin England of U of T's office of the assistant vice-president (planning and budget), that more studies be carried out and, as a result, the effect on individual universities is still not known. U of T's response to the report will be submitted to the minister by Sept. 30.

According to the report one of the major issues raised during the review

was how to accommodate enrolment demand. Continuing enrolment increases will have a negative impact on quality, warns OCUA, and government must clarify its accessibility policies before quality is eroded.

A cornerstone of the 98-page report is the proposal to replace the current basic income unit (by which universities receive their share of provincial funding) with teaching-scholarship income units and basic research units. The report explains that last year many people had expressed concern about a suggested system that would threaten the link between teaching and research.

The council therefore proposes a funding mechanism that it believes better reflects the two basic types of university activity — scholarship and teaching, and research. The largest share of core funding would be allocated to the first component, says the report, "to reflect government's and society's strong interest in ensuring that the needs of learners are being met and the link between teaching and scholarship is recognized." Enrolment would be used to calculate a university's share of provincial funds set aside for teaching and scholarship. (Scholarship is defined as the activity "required to keep abreast of advancements in a discipline or field as required to inform the teaching process.")

A smaller share of core funding would be tied to research activity, fundamental and applied. The portion each institution would receive would be based on three criteria:

number of researchers, peer-reviewed research projects and research output, the latter of which has yet to be defined.

The report also recommends that:

- At least one percent of total university system operating grants be allocated for initiatives that lessen barriers to entry and increase retention rates for students from under-represented or educationally disadvantaged groups.

- Up to three percent of operating grants be allocated for "negotiated initiatives" that help universities restructure their operations.

- Universities have greater flexibility in setting fees for professional programs offered to students who have earned credentials to practice.

- Reviews be conducted to determine social need for professional programs.

- Universities comply with new accountability provisions in three areas: stewardship of resources, quality assurance and ethics practices.

- Transfer of academic credits among universities be enhanced. (OCUA supports, but does not recommend in the report, that universities accept community college credits.)

Although OCUA was not asked for advice on the topic of executive salaries, it notes there is pressure on universities to reveal these figures. Cohnstet suggests in her letter accompanying the report "that universities disclose publicly the salary and benefit levels of senior administrators and the salary ranges for faculty, staff and other administrators employed in universities."

Hold Still — Just One More!



This pose is a familiar one to anyone who has ever toured a foreign city in a large group and has been burdened with the cameras of fellow travellers. It is also a familiar sight to members of U of T watching tourists jockey for the best picture-taking position on campus. Countless tour buses roll around King's College Circle and other scenic routes all year, disgorging eager sightseers. A favourite spot is of the CN Tower, taken from front campus — reputedly the best spot in Toronto to view the world's tallest building.

JENNIFER RANDOLPH

Bio Whiz Looks to U of T

A 17-YEAR-OLD STUDENT FROM Uxbridge Collegiate in Scarborough topped the field in the first U of T Ontario Biology Competition.

Steven Chan, who plans to attend U of T after he graduates from high school in 1996, ranked first out of about 3,000 eligible contestants representing 277 schools. His score earned him a \$500 cash prize and a \$500 scholarship — the Allelix Biopharmaceuticals Inc./U of T Ontario Biology Competition Scholarship — to attend U of T. Chan is spending the summer working on research projects with faculty members at Scarborough College. His sister, Flora, finished 37th in the competition and will be attending U of T in the fall.

The voluntary 90-minute exam, designed for students who have completed grade 11 and Ontario Academic Credit biology, or enrolled in OAC biology, consisted of 60 multiple-choice questions. It was held at participating schools May 9.

The competition, organized by the Faculty of Arts & Science, will become an annual event. "One of the goals of the competition is to recruit the best biology students to U of T," said Corey Goldberg, competition coordinator. Eight of the top scorers who have applied to U of T will be offered U of T Scholar awards, valued at \$3,000.

Second-place winners were Joshua

Hunter from Woodlands Secondary School in Mississauga and Douglas Middlebrook, a thirty-something high school dropout who returned to the City Adult Learning Centre for his high school diploma. Middlebrook will also be studying sciences at U of T in the fall.

The top school, the one with the most students to rank near the top, was Upper Canada College with three students finishing in the top 21. Thornlea Secondary School of Thornhill was a close second.

Wayman Named Resident Writer

TOM WAYMAN, a BC poet and creative writing instructor, has been named Presidential Writer-in-Residence for the spring 1996 term. Based at Massey College from January to April, Wayman will deliver public readings, conduct writing seminars and meet with students. Wayman, selected from among 40 applicants, is currently an English professor at Okanagan University College in Kelowna. He is the author of more than a dozen published books of poetry, including the 1993 *Did I Miss Anything?* Selected Poems 1973-1993 and the 1994 volume *The Astonishing Weight of the Dead*.

Serious Accidents on Decline

THE FREQUENCY OF ACCIDENTS where people require medical treatment or time off work is decreasing, according to U of T's annual report on health and safety.

"Things look to be getting better but why, I really don't know," said David Gorman, director of environmental health and safety, in an interview. His report, presented to Business Board in June, notes that there are still problems persuading people to join workplace health and safety committees and ensuring these meet as often as the law requires.

But despite this, the overall trend

suggests U of T is gradually becoming a safer place. "In 1994, there was a decrease both in the number and severity of lost-time accidents," the report states. There were 3.8 accidents per million hours worked in 1994, compared with 4.7 in 1993 and 5.8 in 1992. The number of lost days of work was 1,527 in 1994, compared with 2,586 in 1993.

"This compares well with the lost-time accident frequency for the educational service sector in the United States, which is on average 8.3 per million hours worked," the report says.

Gorman said that not surprising: staff whose jobs involve heavy physical tasks, such as maintenance employees, are more prone to injuries. There are occasional accidents in chemical labs but people in these workplaces are usually well prepared to handle situations involving safety — more so, sometimes, than in offices where people do not expect danger, Gorman said.

The University's best safety committees, he added, tend to be among workers in physical plants, in areas where the staff is unionized and in chemistry, physics and chemical engineering.



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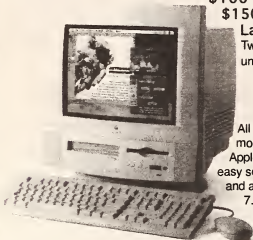
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FEISTY AND FLEXIBLE

The president-designate of the Council of Ontario Universities believes universities can retain independence by adapting

By KARINA DAHLIN

BONNIE PATTERSON PREFERS TO MAKE CHANGES rather than simply react to them. She likes to fight for what she believes in and this is what she plans to do as president of the Council of Ontario Universities.

Her five-year term starts Sept. 1 when she takes a leave of absence from Ryerson Polytechnic University and replaces former COU head Peter George, the new president of McMaster University.

Patterson grew up in Barrie, the daughter of a construction supervisor and a home-maker. Independent by nature, she left home at the age of 15 "to search for freedom," as she put it during an interview in June. In the early 1970s she spent more than a year travelling around North Africa and Europe. When she returned home she began a career that has had a constant upward trajectory since she graduated in 1975 with a master's degree of library and information sciences from the University of Western Ontario.

After five years as an assistant professor in Western's Department of Administrative Office Management, Patterson was appointed professor and later chair at Ryerson's School of Administration & Information Management. In 1990, at 37, she became dean of its Faculty of Business and was, until recently, the only female dean of a Canadian business faculty. In a couple of weeks she will be the first woman to head COU.

An active member of Ryerson (which received university status in 1993), Patterson has participated on numerous committees and projects. For example, she served as special assistant to the president in 1988-1990, she was a member of the committee that negotiated the social contract agreement at Ryerson and she sat on the management team that reached the Ryerson Faculty Association Collective Agreement. For the past two years she has been chair of the Ryerson International Development Centre Advisory Committee and has played an

important role in her institution's capital campaign.

Provincially she is involved in the Ontario Technology Fund's advisory committee on centres of excellence and the advisory panel on women in business and industry. She was also a member of the recently disbanded Premier's Council that provided strategic advice on health and economic policy.

Now her main concern is COU, which was formed in 1962 as the Council of Presidents and is funded by 17 Ontario universities. Guided by the motto "Leadership in higher education:

flourish and, at the same time, address what the public perceives as duplication of programs and lack of cooperation. There is some truth to these perceptions, she concedes, and universities should follow the methods used by governments and the private sector in reviewing their operations. But universities must be self-regulated, she emphasizes, otherwise their autonomy will be lost.

The business teacher that Patterson is, she wants to explain the risk of *not* investing in universities — particularly to government officials who are being forced to make difficult choices because of shrinking revenues. "Investment in the university system is absolutely fundamental," she says. "The economy that must evolve should be based on a knowledge-intensive, industrial basis. An educated populace has to actively participate in the creation of wealth."

She also hopes to give the council's agenda an international slant. Competitiveness today is related to global standards, she observes. "If we know and understand how we can measure ourselves in terms of a global marketplace, then I think we have something very important to talk about with the public."

However, she knows it is difficult for people to listen to messages about change when change these

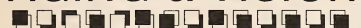
days leads to the elimination of hundreds of thousands of jobs and more and more "McJobs" in the service sector. What is needed is a better understanding of the new knowledge industry — areas such as software creation, electronics, engineering, the plastics industry, robotics, photonics and the application of new information technology — where she sees opportunities emerging that are worthy replacements for redundant jobs in offices and manufacturing.

If people understood these developments, the issue of an educated workforce would be higher on the public agenda, Patterson believes. Creating such understanding is one of her tasks over the next five years.



HOMAN FINLIN

AGING & VISION



Subjects are wanted to participate in a study of aging and vision. Subjects must be 60 years or older, with relatively good eye health (e.g., no cataracts, age-related maculopathy or glaucoma). The experiment is being conducted in the Department of Psychology at the University of Toronto. Subjects will be paid for their participation. For more information, please contact Dr. Allison Sekuler or Dr. Patrick Bennett: 978-1537.

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POSTPARTUM ANXIETY, CHILD SUPPORT AND THE JUSTICE SYSTEM



A new perspective on youth crime

There is something about growing up that appears to involve committing offences, says a book published by the Centre of Criminology. Young people are inclined to break the law but only a few are apprehended, the authors argue. However, since most young people also stop breaking the law, it isn't contact with the youth justice system that changes them.

"Our research suggests that youth offences are not stopped by putting young people through the justice system. In other words individual deterrence is usually not a reason to prosecute a young offender," says author Professor Anthony Doob.

Doob and doctoral students Voula Marinou and Kimberly Varma were asked last year to summarize any criminological research that would be relevant for a House of Commons committee reviewing the Young Offenders Act. They have now published their findings in the book *Youth Crime and the Youth Justice System in Canada*.

Some of their conclusions may come as a surprise. For example, they say that crimes by young people apparently are not increasing or, if they are, have not reached an alarming level. Efforts to prevent youth crime do not have to involve the justice system, the authors conclude, but programs in child welfare and mental health are essential and should target the first few years of children's lives.

Classes ease postpartum anxiety

Specially designed, prenatal parenting communication classes have a significant impact on postpartum anxiety, marital satisfaction and adjustment, Professor Deana Midmer of the Department of Family & Community Medicine finds.

After consulting with couples who had recently gone through postpartum adjustments, Midmer developed a four-hour course to help prepare expectant parents for the changes that come with a new baby. She then tested the effectiveness of the course.

Two groups of 35 couples who had signed up for traditional prenatal classes participated in a trial. One group received two, two-hour postpartum adjustment classes in addition to regular classes and the other group did not. Follow-up testing showed that while the two groups fared similarly during the prenatal period, couples from the group that received the additional classes experienced significantly less anxiety and were better adjusted in the postpartum period than those in the control group. The results were published recently in the journal *Family Medicine*.

"Statistics show that a high number of couples divorce in their first few years after children are born," says Midmer. "There are a lot of changes, a great deal of stress and many marriages can't take the strain. Educational intervention may be the way to help couples cope with the changes and keep their marriages together."

Verdicts unaffected by pre-trial publicity

Jury verdicts are generally unaffected by pre-trial publicity about a case, a U of T professor studying the impact of such publicity says. Even in high-profile cases with a great deal of media coverage, people seem to be able to be fair jurors.

Jonathan Freedman of the Department of Psychology has found that most people do form opinions

about specific cases as a result of pre-trial publicity. However, when they have to perform jury duty, they can usually put aside their preconceptions and decide the case on the evidence presented in court. "Since most pre-trial publicity is against the defendant, jurors will typically think the accused is probably guilty. But they are still willing to have an open mind," Freedman notes.

He and psychology graduate student Tara Burke conducted a series of studies on the effects of pre-trial media coverage. People were given newspaper accounts of real cases before "trying" videotaped versions of the cases. Others were surveyed to determine how they had been affected by publicity surrounding the Paul Bernardo murder case. In Bernardo's case researchers found the pre-trial coverage had little impact on individuals' opinions about his guilt or innocence. In the other studies pre-trial publicity influenced verdicts only under very limited conditions.

In light of these findings Freedman believes Canadian courts should ban pre-trial publicity only in circumstances where there is good reason to believe the information released will seriously jeopardize the defendant's right to a fair trial and that even then the ban should be limited to very specific information such as the publication of the accused's prior criminal record.

Why some fathers don't pay child support

Social work PhD student Deena Mandell is studying how the legal system affects fathers and their payment of child support.

"I'm not looking for excuses for fathers who don't pay child support but understanding why they don't is probably key to solving the problem," explains Mandell. "It seems that there is a standoff between the feminist position and the men's rights' position but in fact there are problems with both views and I hope to help get beyond the impasse."

Many people assume that a father

doesn't pay because he is angry with his ex-wife. However, in preliminary interviews, Mandell reports that some fathers are angry with the legal system, which they feel is biased in divorce cases in favour of women. "Some men indicate that with their change of marital status they feel a decrease in power. They feel the divorce system works to decrease the father's rights," she says.

The current trend is an aggressively escalating pattern of penalizing fathers who don't pay, a strategy that has met with only limited success. Mandell suspects that enforcement is not the answer. "Understanding may be a better solution," says Mandell, who is interviewing fathers, judges, lawyers and social workers to find out more about how fathers are treated by the system when undergoing divorce and custody proceedings.

Formula developed at UTIAS

Researchers at Institute for Aerospace Studies (UTIAS) have developed a formula to determine the effects of the space environment on polymer materials for spacecraft. "Our formula will help in the development of new polymers for spacecraft materials that will better withstand the hostile environment in space," says Professor Rod Tenynsen, director of UTIAS.

Using flight and ground-based data the team has developed a formula that directly links the chemical structure of hydrocarbon-based polymers with their rates of erosion due to exposure to plasma streams such as atomic oxygen. This research will help determine which polymers are best to use and what conditions are best to minimize plastics degradation in future space materials.

Information for the experiment was collected by NASA's Long Duration Exposure Facility satellite which was in space from 1986 to 1990, making it the longest material exposure experiment of its kind in space. The experiment analyzed a number of different polymer composite materials

used in the construction of spacecraft such as graphite/epoxy and kevlar/epoxy. Researchers designed a system that monitored and collected information on change of temperature and deformation of these materials. The effects of space debris impact and atomic oxygen erosion were also measured, all factors contributing to the rapid degradation of the polymer composites in space.



Humour, equality go together

Humour and equality seem to go hand-in-hand in the workplace, according to sociologist Walter Podchik.

"Humour is more of a social structural pattern than a good laugh or a personality characteristic and it is key to building and maintaining equality in the workplace," Podchik says. "In many hierarchies people work with in stringently defined roles and humour is treated as though it is extraneous to the job at hand. Humour may even be punished or discouraged," he says.

A lecturer at Erindale College and a consultant to industry, Podchik points out that humour is an important way that people share information and as such it can be extremely productive. "Usually in a flat organization there's lots of humour, not just of the ha-ha variety but in terms of sharing information on a level of equality."

In strict hierarchies one may find the most negative use of humour—instances in which someone is made fun of and is the butt of jokes. "The effect of this type of humour is to 'put people in their place' and to legitimize the hierarchy," he notes.

SPACE RACE

—Continued from Page 1—

craft that would have transported them to and from the moon. Instead it became their lifeboat back to earth — a tight fit, given that it was designed for two people, not three, and it contained only enough oxygen for 45 hours.

Under normal circumstances the lunar module would have been shed and left to orbit in space. But following the explosion it was needed on the journey home for its oxygen and supplies. Before re-entering the earth's atmosphere, however, the astronauts had to move from the small craft into the specially structured command module, equipped with a heat shield and parachutes. The lunar module, Etkin explains, was unsuitable for re-entry and had to be detached from the main craft or else both would have burned.

The astronauts planned to detonate explosives in an airlock tunnel connecting the two craft; the blast would force them apart. For the plan to be successful though, the air pressure in the tunnel had to be at just the right level. If there was too much pressure the shock waves from the explosion could damage the command module; if there was too little pressure the lunar module would not be thrust far enough away and



could collide with the main craft.

There was no time to research the problem, Etkin says. "We had to respond based on judgement and experience." The team isolated itself in one of the institute's lecture halls. With a three-way phone link to Grumman and the National Aeronautics & Space Administration, they used slide-rules, scribbled symbols on the board, quoted formulae and worked out calculations. They relied heavily on the expertise of Glass, a leading authority on shock waves, and finally arrived at a reasonable upper and lower air pressure limit. It was a decision, Sullivan says, made on the basis of back-of-the-envelope calculations. "There was a lot of excitement but I think we would have been panicky if we had known we were the only team working on it at the time. We assumed that [NASA] was looking for consensus from several teams."

U of T's scientists finished their numbers the day before Apollo landed. "They [at NASA] had to have a lot of lead time to work out the procedures on the ground that the astronauts had to follow," Etkin says. "Every tiny detail had to be exactly so or it wasn't going to work. We were extremely happy when they landed safely the next day."



**UNIVERSITY
OF TORONTO**

**FINANCIAL
STATEMENTS**

APRIL 30, 1995

FINANCIAL HIGHLIGHTS

Total fund balances for the fiscal year ended April 30, 1995 increased by \$53.7 million (8.8%) to \$661.0 million.

THE OPERATING FUND balance increased \$12.9 million to \$63.9 million. Funds committed for specific purposes increased by \$9.3 million to \$59.1 million. Funds totalling \$14.4 million were also committed to cover the following year's social contract commitment. The operating fund surplus for the year of \$6.7 million reduced the cumulative deficit to \$9.5 million. Total funds committed of \$73.4 million less the cumulative deficit of \$9.5 million comprises the fund balance of \$63.9 million.

During the year, the University did not make any contributions into the pension fund as the fund was in a surplus position. This resulted in a pension contribution saving of \$29.4 million which was dealt with as follows: \$4.1 million was used to cover the current year's pension expense, in accordance with the pension accounting policy, \$11.0 million was allocated to partially meet the current year's cost of the social contract and \$10 million was committed to improve the University's physical assets and to support the restructuring needed to adapt to the long range budget plan. The balance of \$4.3 million was used to reduce the deficit.

THE ANCILLARY OPERATIONS FUND balance increased by \$2.5 million to \$19.1 million. Funds committed for specific purposes increased by \$1.9 million to \$8.3 million. The surplus for the year was \$0.6 million which increased the cumulative surplus to \$10.8 million.

THE CAPITAL FUND balance decreased by \$2.3 million to \$4.6 million. The excess of expenditures for the year of \$20.1 million over income of \$15.9 million accounted for a decrease of \$4.2 million. This was partially offset by transfers of \$1.9 million from

the operating fund resulting in a net decrease in the fund balance of \$2.3 million.

Preservation of the University's existing physical assets is of great concern. The current backlog of deferred maintenance is estimated at \$126.9 million, with the potential for a further \$32 million if renovations are pursued that would disrupt asbestos insulation. This backlog in repair and maintenance expenditures is not reflected in the Balance Sheet. In the past year, deferred maintenance expenditures were \$7.6 million and were funded as follows: The Ontario Government \$2.1 million as part of the facilities renewal program, the Canada-Ontario Infrastructure Works Program \$3.9 million and University funding \$1.6 million. In addition to these amounts, the University spent \$9.7 million from the operating fund for regular repair and maintenance. While these expenditures helped address the need to preserve the University's buildings, much remains to be done to meet the deferred maintenance deficiency.

THE RESTRICTED FUNDS balance comprises expendable funds committed for specific purposes of \$155.8 million and endowment funds of \$417.5 million.

The net increase in the restricted funds balance, before transfers, was \$39.7 million. This increase, plus the transfer of \$0.9 million from the operating fund, increased the total fund balance to \$573.3 million. Investment income decreased by \$16.0 million from last year largely due to a reduction in realized gains resulting from the under-performance of the equity markets. However, this reduction in income was offset by increases in government grants and donations. A reduction in spending of \$3.7 million in research funds and \$2.9 million in departmental funds accounted for the increase in fund balance.

**SOURCE AND DISTRIBUTION OF UNIVERSITY FUNDS
FOR THE YEAR ENDED APRIL 30, 1995**
(thousand of dollars)

Income	
Operating fund	
Ancillary operations	
Capital fund	
Restricted funds	

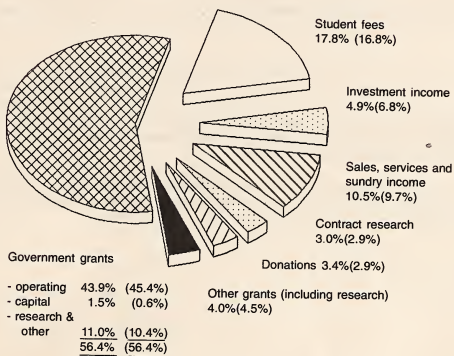
1994-95	1993-94
\$	\$
580,588	573,451
65,278	62,895
15,913	8,175
203,664	204,172
<u>865,443</u>	<u>848,693</u>

Expenditures

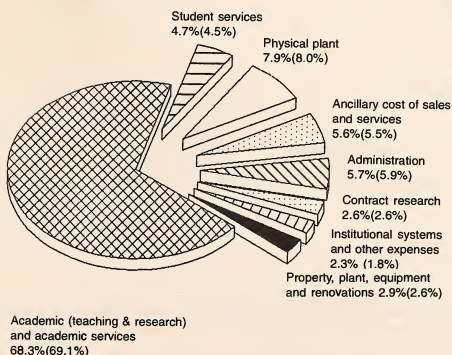
Operating fund
Ancillary operations
Capital fund
Restricted funds

1994-95	1993-94
\$	\$
564,980	564,117
62,684	65,064
20,122	13,242
163,991	171,047
<u>811,777</u>	<u>813,470</u>

INCOME



EXPENDITURES



(previous year's percentages in brackets)

Statement of Administrative Responsibility

The administration of the University is responsible for the preparation of the financial statements, the notes thereto and all other financial information contained in this annual report.

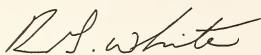
The administration has prepared the financial statements in accordance with accounting principles generally accepted for Canadian universities and in accordance with guidelines developed by the Canadian Association of University Business Officers and The Canadian Institute of Chartered Accountants. The administration believes the financial statements present fairly the University's financial position as at April 30, 1995 and the results of its operations for the year then ended. In order to achieve the objective of fair presentation in all material respects, the use of reasonable estimates and judgements were employed. Additionally, management has ensured that financial information presented elsewhere in the annual report has been prepared in a manner consistent with that in the financial statements.

In fulfilling its responsibilities and recognizing the limits inherent in all systems the administration has developed and maintains a system of internal control designed to provide reasonable assurance that University assets are safeguarded from loss and that the accounting records are a reliable basis for the preparation of financial statements.

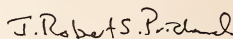
Hewitt Associates has been retained by the University in order to provide an estimate of the University's pension liability for the current year. Management has provided the valuation actuary with the information necessary for the completion of the University's report and retains ultimate responsibility for the determination and estimation of the pension liabilities reported.

Governing Council carries out its responsibility for review of the financial statements and this annual report principally through the Business Board and its Audit Committee. The majority of the members of the Audit Committee are not officers or employees of the University. The Audit Committee meets regularly with the administration, as well as the internal auditors and the external auditors, to discuss the results of audit examinations and financial reporting matters, and to satisfy itself that each party is properly discharging its responsibilities. The auditors have full access to the Audit Committee with and without the presence of the administration.

The financial statements for the year ended April 30, 1995 have been reported on by Ernst & Young, Chartered Accountants, the auditors appointed by Governing Council. The auditors' report outlines the scope of their audit and their opinion on the presentation of the information included in the financial statements.



R. G. White
Chief Financial Officer



J. Robert S. Prichard
President



Auditors' Report

To the Members of the Governing Council of **University of Toronto**:

We have audited the financial statements of **University of Toronto** as at and for the year ended April 30, 1995 comprising the following:


Balance sheet
Statement of changes in fund balances
Statement of cash flows

These financial statements are the responsibility of the administration of the University. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by the administration, as well as evaluating the overall financial statement presentation.

In our opinion, these financial statements present fairly, in all material respects, the financial position of the University as at April 30, 1995 and the results of its operations and the changes in its financial position for the year then ended in accordance with generally accepted accounting principles.

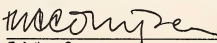
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May 31, 1995.

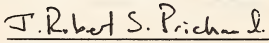

Chartered Accountants

BALANCE SHEET
APRIL 30, 1995
(with comparative figures at April 30, 1994)
(thousands of dollars)

	Operating fund \$	Ancillary operations \$	Capital fund \$	Restricted funds \$	1995 Total \$	1994 Total \$
ASSETS						
Cash	113	14			127	106
Accounts receivable	25,163	7,008		471	32,642	30,895
Inventories and other	2,992	7,495			10,487	10,049
Investments (note 3)	101,358	7,042	3,901	572,870	685,171	631,837
Property, plant and equipment (note 4)		64,289	1,161,326		1,225,615	1,164,398
Advance to University of Toronto Press Incorporated	5,727	(5,727)				
	<u>135,353</u>	<u>80,121</u>	<u>1,165,227</u>	<u>573,341</u>	<u>1,954,042</u>	<u>1,837,285</u>
LIABILITIES						
Bank indebtedness	4,168				4,168	7,472
Accounts payable and accrued liabilities	54,225	11,934	5,926		72,085	66,451
Accrued pension liability	6,688				6,688	2,618
Unearned income (note 5)	6,358	1,509			7,867	8,855
Long-term debt (note 6)		30,649	10,965		41,614	33,272
	<u>71,439</u>	<u>44,092</u>	<u>16,891</u>		<u>132,422</u>	<u>118,668</u>
EQUITY IN PROPERTY, PLANT AND EQUIPMENT		16,943	1,143,691		1,160,634	1,111,297
FUND BALANCES						
Surplus (deficit) (note 7)	(9,494)	10,831			1,337	(5,967)
Funds committed for specific purposes (note 8)	59,053	8,255	4,645	155,811	227,764	197,122
Social contract commitment (note 9)	14,355				14,355	17,453
Endowment funds (note 10)				417,530	417,530	396,712
	<u>63,914</u>	<u>19,086</u>	<u>4,645</u>	<u>573,341</u>	<u>660,986</u>	<u>607,320</u>
	<u>135,353</u>	<u>80,121</u>	<u>1,165,227</u>	<u>573,341</u>	<u>1,954,042</u>	<u>1,837,285</u>

On behalf of the Governing Council:


F. Anthony Comper
Chair


J. Robert S. Prichard
President

(See accompanying notes to financial statements)

STATEMENT OF CHANGES IN FUND BALANCES
FOR THE YEAR ENDED APRIL 30, 1995
(with comparative figures at April 30, 1994)
(thousands of dollars)

	Operating fund \$	Ancillary operations \$	Capital fund \$	Restricted funds \$	1995 Total \$	1994 Total \$
INCOME						
Government grants	379,371		13,004	95,210	487,585	479,805
Student fees	150,853	3,698	547		155,098	142,390
Sales, services and sundry income	25,741	60,497		4,625	90,863	82,093
Contract research	4,115			21,706	25,821	24,646
Investment income (note 3)	20,508	773	955	19,763	41,999	57,503
Donations		310	1,339	27,442	29,091	24,337
Other grants			68	34,918	34,986	37,919
	<u>580,588</u>	<u>65,278</u>	<u>15,913</u>	<u>203,664</u>	<u>865,443</u>	<u>848,693</u>
EXPENDITURES						
Academic	369,517			133,882	503,399	512,390
Academic services	50,649			371	51,020	49,841
Student services and assistance	29,981			8,364	38,345	36,423
Operation and maintenance of physical plant	58,241	6,076			64,317	65,285
Administration	41,095	5,378			46,473	47,690
Interest	762	2,738			3,500	3,236
Cost of sales and services		45,493			45,493	44,502
Contract research				20,659	20,659	21,394
Renovations	1,715		5,908	715	8,338	9,791
Property, plant and equipment		526	14,214		14,740	11,239
Amortization	601	2,336			2,937	2,659
Other	12,419	137			12,556	9,020
	<u>564,980</u>	<u>62,684</u>	<u>20,122</u>	<u>163,991</u>	<u>811,777</u>	<u>813,470</u>
NET CHANGES IN FUND BALANCES BEFORE TRANSFERS	<u>15,608</u>	<u>2,594</u>	<u>(4,209)</u>	<u>39,673</u>	<u>53,666</u>	<u>35,223</u>
Net transfers between funds	(2,743)	(79)	1,922	900		
NET CHANGES IN FUND BALANCES FOR THE YEAR	<u>12,865</u>	<u>2,515</u>	<u>(2,287)</u>	<u>40,573</u>	<u>53,666</u>	<u>35,223</u>
FUND BALANCES, BEGINNING OF YEAR	<u>51,049</u>	<u>16,571</u>	<u>6,932</u>	<u>532,768</u>	<u>607,320</u>	<u>572,097</u>
FUND BALANCES, END OF YEAR	<u>63,914</u>	<u>19,086</u>	<u>4,645</u>	<u>573,341</u>	<u>660,986</u>	<u>607,320</u>

(See accompanying notes to financial statements)

STATEMENT OF CASH FLOWS
FOR THE YEAR ENDED APRIL 30, 1995
(with comparative figures for the year ended April 30, 1994)
(thousands of dollars)

Cash inflow (outflow)	Operating fund \$	Ancillary operations \$	Capital fund \$	Restricted funds \$	1995 Total \$	1994 Total \$
OPERATING ACTIVITIES						
Net change in fund balances for the year	12,865	2,515	(2,287)	40,573	53,666	39,576
Amortization not requiring cash payment	601	2,336			2,937	2,659
Property, plant and equipment charged directly against fund balances	22,839		14,214	11,789	48,842	46,017
Net change in non-cash working capital	1,716	(2,050)	3,020	(60)	2,626	18,326
	<u>38,021</u>	<u>2,801</u>	<u>14,947</u>	<u>52,302</u>	<u>108,071</u>	<u>106,578</u>
INVESTING ACTIVITIES						
Purchase of property, plant and equipment	(22,839)	(6,888)	(21,742)	(11,789)	(63,058)	(59,724)
Net change in investments	(15,186)	(1,759)	4,104	(40,513)	(53,334)	(45,383)
	<u>(38,005)</u>	<u>(8,447)</u>	<u>(17,638)</u>	<u>(52,302)</u>	<u>(116,392)</u>	<u>(105,107)</u>
FINANCING ACTIVITIES						
Net change in long-term debt		5,651	2,691		8,342	(1,593)
NET CHANGE IN CASH FOR THE YEAR	<u>16</u>	<u>5</u>			<u>21</u>	<u>(122)</u>
CASH, BEGINNING OF YEAR	<u>97</u>	<u>9</u>			<u>106</u>	<u>228</u>
CASH, END OF YEAR	<u>113</u>	<u>14</u>			<u>127</u>	<u>106</u>

(See accompanying notes to financial statements)

NOTES TO FINANCIAL STATEMENTS

1. The University

The Governing Council of the University of Toronto is a corporation under the University of Toronto Act, a statute of the Legislative Assembly of Ontario. The University of Toronto is an institution dedicated to providing post-secondary education and to conducting research. The University's mission is to be an internationally significant research university with undergraduate, graduate and professional programs of excellent quality.

These financial statements include the assets, liabilities, fund balances, income and expenditures and other transactions of all of the operations and organizations under the jurisdiction of Governing Council. These financial statements do not include the assets, liabilities and operations of Victoria University, Trinity College and the University of St. Michael's College, Sunnybrook Hospital and affiliated colleges under the memorandum of agreement with the Toronto School of Theology, each of which is a separate corporate body with separate financial statements.

The University of Toronto Foundation is a Crown agent and therefore is not included in these financial statements.

The University holds title to the land and buildings of Sunnybrook Hospital. The Sunnybrook land and original buildings were acquired for the sum of one dollar and are used for hospital purposes and for related medical research and teaching purposes. The property is leased to the Board of Trustees of Sunnybrook Hospital, a separate corporation, under a ground lease, which is perpetually renewable every twenty-one years at the option of the Board of Trustees of Sunnybrook Hospital.

The University is a not-for-profit organization and, as such, is exempt from income taxes under the Income Tax Act (Canada).

2. Summary of significant accounting policies and reporting practices

These financial statements have been prepared in accordance with generally accepted accounting principles applied within the framework of the accounting policies summarized below:

a) Fund accounting -

The accounts of the University are maintained in accordance with the principles of fund accounting in order that any limitations and restrictions placed on the use of available resources may be observed. Under fund accounting, resources held for various purposes are classified into funds in accordance with the specified objectives.

The operating fund accounts for the costs of academic, administrative and other operating expenditures of the University funded by fees, grants and other general income. It also records the assets (other than property, plant and equipment which are recorded as assets of the capital fund), liabilities, funds committed for specific purposes and cumulative surplus or deficit relating to regular academic operations and support activities.

The ancillary operations include parking, residences, food and beverage services which are operated on a fee-for-service basis as well as The University of Toronto Innovations Foundation and University of Toronto Press Incorporated. Plant and equipment utilized by ancillary operations are accounted for within this group.

The capital fund accounts for funds received and expended for the acquisition of all property, plant and equipment except for acquisitions utilized for ancillary operations. Unexpended balances are held in the capital fund for the completion of capital projects.

The restricted funds account for funds received for research and other designated purposes. Some donations are in the form of endowments whereby only income earned on the fund is available for expenditure. Other donations are fully expendable for the purposes intended. The endowment fund also includes funds designated as endowments by Governing Council in the exercise of its discretion rather than as a result of externally imposed restrictions. In such cases, Governing Council has the right to subsequently decide to remove the designation.

b) Investments -

Investments are accounted for at cost, or where there is deemed to be an impairment in value which is other than temporary, at cost less amounts written off.

Gains or losses on sale of fixed income investments are deducted or added to the book value of investments and amortized according to the average maturity of securities sold.

c) Inventory valuation -

Supplies and other inventories are carried substantially at the lower of average cost or market.

d) Pension expense and obligations -

The University has a defined benefit pension plan for its employees. Pension expense is determined using the projected benefit actuarial method based on services rendered and management's best estimates. Adjustments to the pension expense are amortized to income on a straight-line basis over the expected average remaining service life of pension plan members. Pension fund assets are valued using a three year modified average of year-end market values.

Payments into the pension fund in excess of pension expense are recorded as a deferred pension charge and an equal amount is committed within the fund balance for future years when the pension expense will exceed the contributions paid into the pension fund. When pension expense exceeds contributions, the difference is recorded as a liability.

e) Other post-retirement benefit obligations -

Post-retirement benefits for extended health and dental care are accounted for as benefits are paid.

f) Property, plant and equipment -

Land, buildings and equipment are carried substantially at cost, except as noted below. All purchases of fixed assets, including library books, are recorded as expenditures in the appropriate fund and recorded as an asset in the capital fund, except as noted below. The asset values of equipment and library books are adjusted to reflect obsolescence.

Operating fund expenditures include the acquisition cost of all equipment and library books as incurred with the exception of equipment costing more than \$500,000 that is not externally funded. Such equipment not externally funded is amortized over the estimated useful life of the equipment. The gas turbine and associated equipment for the co-generation facility and the relamping retrofit are amortized over 20 years and computer equipment is amortized over a period not exceeding 5 years.

Ancillary operations carry buildings and equipment at cost less accumulated amortization. Amortization on buildings and equipment is recorded on a straight-line or declining balance basis as an expenditure. In the case of residences and other buildings financed by a mortgage, the principal repayment is expensed as amortization.

g) Research overhead -

The overhead component of externally funded research is taken into income in the operating fund. The direct expenditure components of externally funded research and the related income are reported within restricted funds.

h) Donations and pledges -

The University actively fundraises and donations are recorded when received. Pledges are not included in the financial statements.

i) Contributed services -

Volunteers contribute a substantial number of hours per year. Because of the difficulty of determining their fair value, contributed services are not recognized in the financial statements.

3. Investments
(thousands of dollars)

	1995		1994	
	Cost \$	Market Value \$	Cost \$	Market Value \$
Short term notes	188,000	188,321	170,295	170,931
Government bonds	232,580	233,099	197,949	190,533
Corporate bonds	28,775	29,019	59,516	62,141
Canadian equities	164,719	182,113	143,794	164,433
International equities	57,607	73,633	53,336	62,944
Real estate	11,084	11,008	3,761	3,752
Other	2,406	2,411	3,186	3,156
	<u>685,171</u>	<u>719,604</u>	<u>631,837</u>	<u>657,790</u>

The University has purchased equity futures contracts related to various international stock indices which provide returns equivalent to those that would be earned by investing directly in the equities that make up the indices. The notional value of international equities associated with the stock index futures held at year end is equal to \$36.8 million (1994 - \$32.5 million).

Investment income includes realized capital gains of \$0.6 million (1994 - gains of \$22.9 million).

Investment income is recorded in each fund holding the investment except for investment income earned on certain of the restricted funds where the income is reported in the operating fund, net of the portion which, in accordance with the University's preservation of capital policy, is reported in restricted funds investment income and transferred to the endowment capital.

4. Property, plant and equipment
(thousands of dollars)

	1995			1994	
	Ancillary operations \$	Capital fund \$	Total \$	Total \$	
PROPERTY, PLANT AND EQUIPMENT, AT COST (note 2f)					
Land	10	30,822	30,832	30,832	
Buildings	61,382	572,185	633,567	610,561	
Furniture and equipment	16,586	412,163	428,749	402,167	
Library books		147,297	147,297	133,736	
	<u>77,978</u>	<u>1,162,467</u>	<u>1,240,445</u>	<u>1,177,296</u>	
LESS ACCUMULATED AMORTIZATION	<u>13,689</u>	<u>1,141</u>	<u>14,830</u>	<u>12,898</u>	
NET BOOK VALUE	<u>64,289</u>	<u>1,161,326</u>	<u>1,225,615</u>	<u>1,164,398</u>	

The University uses inflation indices provided by its insurer to establish the replacement value of assets for insurance purposes, except for library books and the art and rare book collections which are valued by the appropriate University officers.

The insured replacement value of buildings is \$1.64 billion, contents \$1.74 billion which includes library books of \$1.0 billion, and fine art and rare book collections of \$34 million.

5. Unearned income

Unearned income consists of unspent designated government grants provided for hiring new faculty, extending and developing teaching programs where expenses will be incurred in the following year and student fees received for courses which will be conducted in the following year.

6. Long-term debt
(thousands of dollars)

	1995			1994		
	Ancillary operations \$	Capital fund \$	Total \$	Ancillary operations \$	Capital fund \$	Total \$
Mortgages at an average interest rate of 9.31% maturing 2004 to 2029	13,110		13,110	13,256		13,256
Term loans at an average interest rate of 7.98% maturing 1996 to 2003	18,595	12,875	31,470	12,660	9,585	22,245
	31,705	12,875	44,580	25,916	9,585	35,501
	(1,056)	(1,910)	(2,966)	(918)	(1,311)	(2,229)
Less current portion included in accounts payable	<u>30,649</u>	<u>10,965</u>	<u>41,614</u>	<u>24,998</u>	<u>8,274</u>	<u>33,272</u>

Effective April 1, 1993, the University issues debentures to the Ontario Financing Authority for capital funding received from the Province of Ontario for the renovation of existing facilities and the construction of new facilities. Interest is payable on the debentures at 9.4% (1994 - 8.4%) per annum. The outstanding balance of such debentures as at April 30, 1995 is \$12.86 million (1994 - \$5.62 million).

Financing was previously provided in the form of direct grants to the University. The Province of Ontario provides grants equal to the annual payments of debenture principal and interest as they become due, therefore, these debentures and the related accrued interest have not been recorded as a liability in the accounts of the University.

7. **Changes in surplus (deficit)**
(thousands of dollars)

	1995			1994		
	Operating fund	Ancillary operations	Total	Operating fund	Ancillary operations	Total
	\$	\$	\$	\$	\$	\$
Net changes in fund balances for the year	12,865	2,515	15,380	9,356	(1,816)	7,540
Net changes in funds committed for specific purposes (note 8)	(9,284)	(1,890)	(11,174)	(4,430)	11,320	6,890
Net change in social contract commitment	3,098		3,098	(17,453)		(17,453)
Net changes in surplus (deficit)	6,679	625	7,304	(12,527)	9,504	(3,023)
Surplus (deficit), beginning of year	(16,173)	10,206	(5,967)	(3,646)	702	(2,944)
Surplus (deficit), end of year	(9,494)	10,831	1,337	(16,173)	10,206	(5,967)

8. **Funds committed for specific purposes**
(thousands of dollars)

	1995	1994
	\$	\$
OPERATING FUND (note 8a)		
Carryforward of divisional appropriations	38,754	32,494
Purchase order commitments	7,596	6,847
Research overhead	2,190	2,646
Alterations and renovations	2,220	682
University infrastructure investment fund	4,995	7,100
Transitional funds	553	
Priorities funds	2,745	
	59,053	49,769
ANCILLARY OPERATIONS (note 8b)		
Alterations and renovations	3,137	1,546
Capital renewal fund	5,118	4,819
	8,255	6,365
CAPITAL FUND (note 8c)		
Capital renewal fund	4,645	6,932
RESTRICTED FUNDS (notes 8d and 10)		
Research	67,859	57,809
Other expendable funds	88,152	76,247
	155,811	134,056
TOTAL FUNDS COMMITTED FOR SPECIFIC PURPOSES	227,764	197,122

a) **Operating fund**

The commitment of funds for specific purposes reflects the application of Governing Council policy as follows:

- i) Carryforward of divisional appropriations - Divisions are permitted to carry forward unspent appropriations at the end of each year for expenditure in the following year.
- ii) Purchase order commitments - Funds for unfilled purchase orders have been committed for goods or services to be received in the following year.
- iii) Research overhead - Research overhead recovers from customers in calendar year 1994 is appropriated and available for spending by faculties in the following year.
- iv) Alterations and renovations - These funds represent unspent appropriations in respect of approved projects in progress at the end of the fiscal year.
- v) University infrastructure investment fund - This fund was established to improve the University's effectiveness, quality and productivity of physical assets, including projects such as building renovation, energy conservation and renewal of administrative systems.
- vi) Transitional funds - These funds are to support the temporary

adjustments and restructuring needed to adapt to the long-range budget plan.

- vii) **Priorities funds** - These funds are to support various initiatives to enhance the quality, structure and organization of programs and activities.

b) **Ancillary operations**

Funds are committed for alterations, renovations and future building projects.

c) **Capital fund**

The capital renewal fund is held for the capital building programme.

d) **Restricted funds**

Research and other expendable funds represent grants and donations for research, student aid and other restricted purposes.

9. **Social contract commitment**

Over the three-year period 1993-96, the University's operating grants are being reduced by \$53.7 million due to the Province of Ontario's Social Contract Act (Bill 48). Expenditures are being reduced by \$9.8 million through employees' unpaid designated days off in connection with this legislation. The University will not make current service pension contributions into the pension fund over the same period.

An amount of \$14.4 million (1994 - \$17.5 million) has been committed to meet the University's social contract obligation for next year.

10. Restricted funds
(thousands of dollars)

	1995	1994
	\$	\$
Endowment funds (note 2a):		
Externally designated	121,590	112,814
Internally designated	295,940	285,898
	417,530	398,712
Expendable funds (note 8d)	155,811	134,056
	<u>573,341</u>	<u>532,768</u>

The University ensures, as part of its fiduciary responsibilities, that all funds received with a restricted purpose, are expended for the purposes for which they were provided.

11. Pension plan

As at April 30, 1995, the market-related value of pension fund assets was \$1,335 million (1994 - \$1,255 million) and the present value of accrued pension benefits based on actuarial appraisals was \$1,172 million (1994 - \$1,107 million). The plan is funded by the University based on the advice of independent actuaries.

12. University of Toronto Foundation

As at year end, the University of Toronto Foundation, a Crown agent, had a balance of donations on hand in the amount of \$1.1 million which was conveyed to the University after year end.

13. Other commitments

- a) The estimated cost to complete construction and renovation projects in progress at April 30, 1995, which will be funded by government grants, donations and operations, is approximately \$25.5 million (1994 - \$35.3 million).
- b) The annual payments under various operating leases for which no liability has been recorded are approximately \$3.3 million (1994 - \$3.2 million).
- c) During the year, the University entered into an agreement with The Ontario Institute for Studies in Education ("OISE") which calls for the integration of OISE with the University's Faculty of Education to form a single integrated Faculty within the University of Toronto. Under the agreement, the University assumes ownership of the assets, liabilities and fund balance of OISE effective July 1, 1996. OISE anticipates that the cumulative deficit at April 30, 1996 will be approximately \$1.5 million.

14. Contingencies

- a) The University has a programme under which it guarantees bank loans to faculty and staff members to assist in the purchase or refinancing of their homes. The University holds mortgages as collateral security against such guarantees. At April 30, 1995, the amount of loans guaranteed was \$4.2 million (1994 - \$4.6 million).
- b) The nature of the University's activities is such that there is usually litigation pending or in prospect at any one time. With respect to claims at April 30, 1995, the University believes it has valid defences and appropriate insurance coverage in place. In the unlikely event any claims are successful, such claims are not expected to have a material effect on the University's financial position.
- c) The University is a member of a reciprocal exchange of insurance risks in association with forty-five other Canadian universities. This self-insurance co-operative is named CURIE and involves a contractual agreement to share the insurable property and liability risks of member universities.

The projected cost of claims is funded through members' premiums based on actuarial projections. As of December 31, 1994, CURIE had a surplus of \$11 million (1993 - \$7.5 million), of which the University's pro-rata share is approximately 11% (1993 - 11%) on an ongoing basis.



REFLECTIONS ON UBC

One professor warns (again) that the concept of academic freedom is being stretched too far . . .

By JOHN FUREDY

THE DECISION BY THE UNIVERSITY OF BRITISH COLUMBIA to "suspend" its graduate political science department until it is shown to be "free of harassment and discrimination" should please other universities. Imagine if the president of Ford Motor Company "suspended" the activities of, say, his advertising department after a report which, while naming no individuals and proving no specific charges, nevertheless concluded that "sexism and racism were pervasive" and that a "chilly climate" existed in the department. Wouldn't other car manufacturers be delighted to hear this news?

Of course for faculty and students at U of T for whom academic freedom is more than just an empty phrase, the news from UBC is not so pleasing. They should know that in an article about the UBC situation on June 24 in *The Globe and Mail*, Paddy Stamp, then convener of our own eight-member Equity Officers Advisory Group (EOAG) (which reports directly to the president and which has an annual budget of \$1.5 million) is cited as saying that "it is necessary that any large organization be prepared to undertake such an investigation" and that such policies "allow universities to address complaints that are not covered by laws or human-rights codes."

Only if one's concept of academic freedom is totally elastic can this position be reconciled with Ms Stamp's earlier assurance (when the EOAG was formed) that her group "would safeguard, not endanger, academic freedom" (*The Bulletin*, June 7, 1993).

But academic freedom has indeed become an elastic concept during the

last few years at U of T. Take the case in 1989 of Professor Jeanne Cannizzo. The University of Toronto failed to protect her academic reputation and right to teach when certain so-called "anti-racism" pressure groups accused her of racism. And the mandate of the Race Relations & Anti-Racism Initiatives office, formulated in 1991, directs the office to enquire "whether there is anything in the curriculum or lectures which may be offensive to anyone who is disadvantaged or member of a visible minority group." Aside from the Society for Academic Freedom & Scholarship (SAFS), no other academic organization appeared to consider this sort of mandate to be a threat to the academic freedom of faculty.

In 1994 the University's reaction to the province's Zero Tolerance Framework was to institute a speech code which, though not as stringent as the ZTF, still placed restrictions on

freedom of speech that went beyond Canada's hate laws. When I requested clarification at a meeting of Academic Board on whether it would be offensive for a professor of sociology to say in class that, on the average, heterosexual parents are more effective than homosexual ones, I was told that the equity officers were "well positioned to provide advice" on how to interpret my university's speech code. Amazingly the answer appeared to satisfy other board members.

And if you think that my university is casual only as far as freedom of speech of its faculty is concerned, think again. On March 29, 1995, Erindale's chief administrative officer, Glenn Walker, took it on himself to seize several thousand copies of the newspaper, which is an independent student paper. An open letter of protest to President Robert Pritchard by Bruce Rolston (then editor of *The Varsity*), me (representing SAFS) and Sam

Lee (then editor of *The Midweek*) was published on April 24 in *The Bulletin*. We requested censure of Mr. Walker for violating the University's freedom of speech policy and assurances that similar acts by administrators would not occur. No one has replied.

So while it is true that the grossly outrageous events that occurred at UBC have not occurred here yet, it is clear that equity officers are eager to support such "investigations" at U of T. It also appears that neither the administration nor most other members of the academic community are prepared to oppose these Salem-like procedures.

John Furedy is a professor in the Department of Psychology.



. . . His bridge partner points out that the rules of the game include equity

By JONATHAN FREEDMAN

THE MEDIA HAVE BEEN FULL OF CONDEMNATIONS OF the recent actions of the University of British Columbia in dealing with charges of racism and sexism within its department of political science. Most writers have focused on what happened at UBC, but some have gone well beyond that. In particular John Furedy has launched a general attack on all efforts to promote equity at Canadian universities. I find myself between two partners on this issue. John is a colleague of mine and my regular bridge partner, while the partner I live with is one of the equity officers at U of T. In addition I have been a university professor for eons, have often been involved in controversial issues and treasure academic freedom. Thus I am by no means a disinterested observer.

John's style in bridge is to bid very aggressively. This sometimes pays off handsomely, especially when his side has strong cards and the opponents are weak players, but it often leads to disaster when the cards are weak or the opponents strong. But no matter — it is exciting, bridge is only a game, and I very much enjoy playing it with John as my partner. Unfortunately he uses the same style in attacking those he believes threaten academic freedom. Although it is difficult to judge without intimate knowledge of the department there, it seems clear that the administration at UBC made serious mistakes in how it handled the situation. These mistakes have damaged many people as well as the university and are justly condemned by *The Globe and Mail*, Furedy and others. Good score!

Regrettably, in a piece in *The Globe and Mail*, John has used the mistakes at UBC to justify an attack on the principle of promoting equity on university campuses in general and the activities of the equity officers at the University of Toronto in particular. Here John seems to have forgotten the goal of the game, which I thought was to protect and promote academic freedom (forgive me for continuing the metaphor — this is not a game, it is deadly serious). That one university has made a mistake in the name of equity in no way diminishes the importance of promoting equity either there or elsewhere and Furedy offers no good reasons for his broader attack. Bad score — low board.

To justify his attack on equity John describes the terrible incident involving Jeanne Cannizzo, implying that this was caused somehow by the equity officers or by the promotion of equity. This is totally false and he must know it. Jeanne Cannizzo was hounded out of this university by a group of students and non-students who disrupted her classes. She was not a victim of the principle of equity but rather a victim of the administration's unwillingness or inability to protect her rights. If the case had been handled by one of the equity officers, I believe she would have fared far better because the principle that all people should be treated fairly and their rights protected includes faculty. This incident argued for, not against, principles of equity and the existence of equity officers.

Perhaps it may help to list some of the things that the equity officers do at the University of Toronto. They deal with safety on the campus. Does John object to making it safer for people to walk on the campus at night or to the protection of individuals in this community whose safety is at risk? Is this a threat to academic freedom? Equity officers deal with discrimination against non-whites, natives and women. Does academic freedom include the licence to discriminate against people on the basis of race or sex? Equity officers deal with sexual harassment. Does academic freedom include the right to pressure a student to have sex in order to get a good grade? Equity officers deal with people with disabilities. Does John think that informing students which buildings are wheelchair accessible or providing students with reading disabilities some extra time during exams threatens academic freedom? So just what is it that has Furedy and his group so exercised? I must say that it sometimes seems that they are worried not so much about academic freedom but at possible limitations on the right of professors to do and say anything.

Certainly attempts to achieve equity sometimes go astray. Some false or unjustified complaints about racism, sexism or sexual harassment may be pursued too vigorously by those responsible. Some students may abuse the right to have extra time in examinations by pretending to have a disability they do not

have, and those responsible are probably sometimes taken in. Of greater relevance to academic freedom, those responsible may sometimes confuse protecting people from discrimination with the imposition of their own views of political correctness. Those administering these programs are only human. They make mistakes, and these mistakes may harm innocent people and perhaps even threaten academic freedom. But these errors do not mean that the goals are wrong. Abuses and mistakes have sometimes occurred in the name of virtually all lofty principles including, dare I say it, the protection of academic freedom. But we do not discard the principles because of these mistakes. John and I sometimes make awful mistakes in bridge but this does not make us give up the game.

Let us acknowledge that those responsible for promoting equity bear a considerable burden that requires tact, judgement and clear heads. Yet at the University of Toronto, at least, I know of not one incident in which anyone's academic freedom has been threatened by the actions of an equity officer. Indeed the officers have served to protect the faculty and others from unwarranted charges, have mediated many complaints and have never interfered with the academic freedom of anyone. At the same time the equity officers have protected students, staff and faculty from discrimination, harassment and other mistreatment.

If all Furedy and the others are complaining about is the possibility of mistakes being made in the name of equity, fine. Let them make this clear and perhaps they can even suggest ways of improving the activities of those responsible for promoting equity. When I make a mistake in bidding he doesn't drop me as a partner but tries to help me bid better next time. Let him and others do the same in this far more important arena. Certainly protect academic freedom, certainly protest against mistaken actions in the name of equity, but do not forget that universities are places in which all people must be able to live and work without fear and discrimination.

Jonathan Freedman is a professor in the Department of Psychology.

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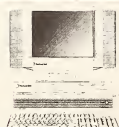


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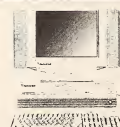
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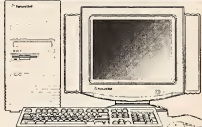
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ACCOMMODATION RENTALS AVAILABLE —METRO & AREA—

Admiral Road. Spacious lower-level studio apartment. Private entrance, quiet, 5 appliances. Available September 1. Parking available. \$795/month + hydro. (905) 822-4015 days.

Sabbatical rental, January-June 1996. Professor's furnished house, quiet tree street, High Park area, near transit (30 min. to U of T), shopping, 2 bedrooms + study/nursery, laundry, garden. Garage negotiable. Prefer couple/child with baby. No pets, non-smokers. \$1,500 + utilities. (416) 769-9291.

Fully furnished, 3-bedroom, 2-bath Tudor home on quiet residential street. Den has sliding doors to deck & private garden. 20 minutes from downtown. Separate basement apartment is occupied by long-term tenant. \$1,900/month + utilities. 4 months minimum. 239-5588 or 232-2100.

Bloor/St. George area. Sunny, quiet, south-facing studio apartment; secure luxury building. 24-hour concierge, washer, dryer in apartment; roof garden. Available September 1. \$850 all utilities included. Parking available extra charge. N. Macdonald, 968-1720.

Old Mill/Jane subway. Owner's 2-bedroom apartment in adult duplex. Furnished, modern kitchen, separate dining-room. Outdoor parking space. September to April (negotiable). \$1,000 monthly plus phone. (416) 762-3371.

Sabbatical rental. Large fully furnished condominium apartment opposite park. 2 bedrooms; 2 baths on suite; balcony, A/C, 6 appliances; pool. Prime central area: 15 minutes U of T, subway at door. For one year. \$1,400/month inclusive. 787-4857.

Yorville — great location! Bright, elegant ground floor in beautiful, quiet house facing park. Two rooms & large bathroom, French doors walk-out to garden, security, laundry, parking available, use of kitchen. Suits a non-smoking professional man. \$1,350 including utilities. 966-9535.

Bathurst/Dupont first floor/basement, full furnished house. January 1 — April 30, 1996. Close to University, metro, shopping, restaurants. 2 bedroom, 2 bathrooms, carpeted, fireplace, dishwasher, washer/dryer. \$1,000 per month. Call (416) 534-2550, fax (416) 534-2118.

Finch and Pharmacy area. A four-bedroom beautifully furnished townhouse with

appliances, garage, finished basement with wood fireplace. Close to TTC. U of T staff, visiting professors and post-graduate students. At 62 Huntingdale Blvd. in Scarborough. \$1,200 per month. Available August-25, 1995. Call (416) 497-3071.

Short-term, 4-5 months. Furnished detached house — 2 bedrooms, 2 bathrooms, den. Quiet cul-de-sac, ravine, parking. TTC close downtown. No pets. Non-smokers. October-March, dates negotiable. Suit couple. 755-0540.

Historical Draper Street. Elegant downtown living, 3-storey Victorian home, beautifully furnished, fireplace, deck, shaded patio, laundry, dishwasher, central air, car garage. No pets, adults only. November 1 — May 31. \$1,150 inclusive. 977-6992.

2-bedroom, 2-floor, nicely furnished apartment. 5 appliances, private deck & parking included. \$1,000/month + utilities. Available September 1 on sublet. Pape/Danforth. Call Pat. 483-6225, ext. 397.

Upper Beach. 3-bedroom brick semi, open-concept living/dining-room, restored hardwood floors & wood trim throughout, modern kitchen & bath, 2-car parking, deck, pretty garden, near park and excellent public school. 690-3653.

Furnished, beautiful, spacious 2BR. Spadina/St. Clair. Spectacular view, many extras. \$2,000/month including parking, cable. November 1. Owner away at least 1 year. References. 964-2305 day or evening.

Sublet. Large one-bedroom apartment. January to April 1996 (possible for 6 months). Quiet, Harbourfront, good TTC service. \$770 per month, hydro extra. Call Pat (W) 979-6660, ext. 216. (H) 260-8787.

Bloor/Bathurst. Furnished 3-bedroom, 2-story house available November 1995 — June 1996. All appliances. Quiet neighbourhood; faces park. Close to University, subway, shopping. Suit visiting faculty couple; non-smoker. \$950/month + utilities. 534-4433.

Bright, clean, new, three-bedroom detached house. Meadowdale, Mississauga. Unfurnished, includes five appliances, central air, double car garage, front porch, backyard. Available November 1. \$1,100 plus utilities. Please call (905) 824-5426 for more details.

Riverdale bachelor flat — adorable. Private entrance. Walk-out to garden. Laundry. Cable. TTC. Prefer non-smoker, no pets, straight, gay or gay positive. Available September 1. 295-2115.

Unionville. Family home. 3 bedrooms, eat-in kitchen, huge family room. Fully furnished. Steps from public school, skating pond, Unionville's Main St. Easy 60-train ride into city. Available January-June 1996. \$2,250/month (utilities, lawn service, cleaning service included). Phone (905) 940-2882. e-mail kortsch@eef.utoronto.ca

Riverdale prime two-storey 3-bedroom immaculate home, unfurnished. 5 appliances, fireplace, basement laundry storage, security, walk-out porch to large private backyard, gas heating, parking, November occupancy. \$1,495 + utilities. (416) 730-9582.

Executive house. Six-month rental, October through March. Fully furnished, 2-story brick. 3 bedrooms, 3 bathrooms, big kitchen, family room, finished basement. On bus route, 15 minutes from University. No smoking, pets, children. (416) 221-3175.

Furnished condo, Bay/Bloor area. 1 bedroom, balcony. Lake view. Appliances. \$825/month. Call for appointment. 972-0743.

2-bedroom apartment, very central, subway access. 1 master bedroom with 2 queen-size beds, 1 small bedroom/den with pull-out bed of white leather and white cane furniture. Great stereo, TV, VCR & CDs. Indoor pool and patio — balcony with appropriate furniture, flowers, etc. 3-6 month lease. Suitable for professor or faculty member. Phone: (416) 487-2580.

Furnished apartment: bedroom, study, dining-room, balcony, parking, air. Quiet residential neighbourhood. Park York Mills/Yonge subway, bus at door. September 15 for one or two years. \$700-\$750. Dr. Knox, 449-3268.

ACCOMMODATION RENTALS REQUIRED

Visiting professor from Oxford. wife and baby, seek sabbatical rental close to TTC. September — and December 1995. (416) 978-5331 (office), (416) 998-0913 (home) or email ecom2@vax.ac.uk

Looking for accommodation in Toronto for the month of September. Swiss family needs 2-bedroom (apartment or house), furnished, not far from the University. Please call (416) 314-2190.

Sabbatical leave ideal! Sick Kids Fellow and wife, non-smokers, looking for furnished 1-bedroom apartment or small house for September to June; near downtown area or subway access. (416) 593-0347.

ACCOMMODATION SHARED

Large furnished studio/bedroom in private home of U of T to share with owner. Fine residential area near TTC, shops, parking. Use of kitchen, laundry. Installation of own phone line required. Suitable for post-doctoral female student, non-smoker. \$500 monthly. Phone 922-2677.

High Park. Clean, quiet, spacious home to share with amiable 30-ish female and lovable golden retriever. 3-minute walk to subway and park. Fireplace, hardwood floors, laundry, barbecue, cable, storage. Wonderful neighbourhood. Available September 1. \$750/month inclusive. 766-6205.

Eglinton West/Weston Road. Well-furnished, nice, clean, 2-bedroom. Prefer female, no smoking, no pets allowed. Available September 1. For more information, call (416) 248-9640.

ACCOMMODATION OVERSEAS

Paris, Ile St. Louis, apartment in historic 17thc mansion minutes to major museums, libraries, archives. Two rooms plus mezzanine, bathroom, kitchen, call, sunny, TV, laundry, fax. Available November 1 to April 1996. Fax (416) 961-0162.

France. Charming village house near Montpellier. Three bedrooms, two baths, garden and view terrace. \$US500/week, \$800/month; less for longer. (516) 632-7713.

BED & BREAKFAST

Award-winning home. Immaculate, smoke- and pet-free. Quiet nooks and crannies for reading and relaxing. Healthy breakfasts and we cater to diets. Walk to U of T, ROM. Parking. \$80 daily for two, \$65 for one. (416) 967-6474.

HOUSES & PROPERTIES FOR SALE

Great opportunity at \$179,000. Detached, modern, three-storey, 3-bedroom with two

washrooms. Private drive with garage, open-concept main floor with fireplace. Maryann Carter, Sales Representative, Royal LePage Real Estate Services Ltd. 424-4900.

MISCELLANY

PERSONAL COUNSELLING in a caring, confidential environment. U of T staff extended health care benefits provide excellent coverage. Dr. Ellen Greenberg, Registered Psychologist. The Medical Arts Building, 170 St. George Street, 961-3683.

INDIVIDUAL & COUPLE THERAPY. Experienced in brief and long-term therapies. Extended health benefits provide full coverage for U of T staff. Dr. Gale Bidwell, Registered Psychologist, C.M. Hincks Institute, 114 Maitland Street (near Wellesley and Jarvis), 972-6789.

Violent Head, Registered Psychologist. Individual, family and group psychotherapy. Work with other cultures, women's issues, addictions, depression, etc. U of T staff health benefits cover cost. 200 St. Clair Ave. W., Suite 404, Toronto M4V 1R1. 922-7280.

Individual psychotherapy for adults. Evening hours available. Extended benefits coverage for U of T staff. Dr. Paula Gardner, Registered Psychologist, 114 Maitland Street (Wellesley and Jarvis), 469-6317.

Phyllis' Place of Esthetics. Your beauty solution at 186 St. George at Bathurst. Offering very good rates. In the business for twenty-five years. Facials: \$35. Pedicures: \$25. Waxing and many more treatments available. Please call 928-9449.

Individual cognitive behavioural psychotherapy. Practice focussing on eating disorders, depression, anxiety and women's issues. U of T staff extended health care benefits provide full coverage. Dr. Janet Cweide, Registered Psychologist, 138 St. Clair Avenue West (St. Clair and Avenue Road), 929-3084.

Child care. Elder care. Maternity/prenatal leave. Free confidentiality information and referral services for all faculty, staff, students and their families. Workshops, support groups, help adjusting to Toronto. University of Toronto Faculty of Arts Advisor. (416) 978-0951.

VIOLIN AND CELLO LESSONS offered by professional musicians. Yare and Juillard graduates with degrees in performance. Experience with all ages and levels. Flexible schedules and competitive rates. For more information call (416) 966-2339.

EVENTS

LECTURES

The End of the Mamluk-Mongol War and Its Effects.

WEDNESDAY, SEPTEMBER 6
Prof. Reuven Amitai-Preiss, Hebrew University of Jerusalem. 1409B Robarts Library. 4 p.m. Middle East & Islamic Studies

SEMINARS

Current Trends in the Social History of Medicine in Germany.
WEDNESDAY, SEPTEMBER 6
Prof. Reinhard Sepp, University of Munich. Hannah seminar for the history

of medicine. Seminar Room, 88 College St. At 4 to 6 p.m. *History of Medicine*



EXHIBITIONS

**JUSTIN M. BARNICKE GALLERY
HART HOUSE
Contemporary Painting from Korea and Canada.**
TO AUGUST 24
Highlights artwork of both Canadian and

Korean artists. Both Galleries. Gallery hours: Monday to Friday, 11 a.m. to 6 p.m.; Saturday, 1 to 4 p.m.

**THOMAS FISHER RARE BOOK LIBRARY
A Pride of Gifts: Donations from Our Friends, 1990-1994**

TO SEPTEMBER 15
Selection ranges from a Babylonian unicorn tablet of 1789 BC to incunabula to modern literary manuscripts. Thomas Fisher Rare Book Library. Hours: Monday to Friday, 9 a.m. to 5 p.m.

**ROBERTS LIBRARY
Unknown Russia.**
SEPTEMBER 5 TO SEPTEMBER 23
Anatoli Moukhortov, paintings of ancient Russian architecture on silk.

Main Display Area. Hours: Monday to Thursday, 8:30 a.m. to 11 p.m.; Friday, 8:30 a.m. to 6 p.m.; Saturday, 9 a.m. to 5 p.m.; Sunday, 1 to 6 p.m., except Saturday, Sept. 2 to Monday, Sept. 4.



MISCELLANY

Campus Walking Tours.
TO AUGUST 31
Hour-long tours of the downtown campus conducted by student guides. Tours available in English and Hindi. Map Room, Hart House. 10:30 a.m. and

2:30 p.m., Monday to Friday. Information: 978-5000.



DEADLINES

Please note that information for Events listings must be received in writing at *The Bulletin* office, 21 King's College Circle, 2nd floor, by the following times:
Issue of September 5, for events taking place Sept. 10 to 18 MONDAY, AUGUST 21.
Issue of September 18, for events taking place Sept. 18 to Oct. 2: TUESDAY, SEPTEMBER 5.

RESEARCH NOTICES

For further information and application forms for the following agencies, please contact University of Toronto Research Services (UTRS) at 978-2163.

INTERNATIONAL ASSOCIATION OF UNIVERSITIES AND COLLEGES OF CANADA
Reform through Knowledge: Higher Education Reform in Ukraine is a program of short-term projects in Ukraine for Canadian academics and professionals wishing to contribute to the process of higher education reform, within the context of broader economic and democratic reform. The goal is to support reform at the institutional level within clearly defined sectors. Focus areas are university administration, higher education policy, law school curricula and business management curricula. Applicants are expected to possess a combination of academic and professional qualifications that would allow them to provide administrative, policy or curricular assistance in Ukrainian institutions. The autumn competition opens Sept. 1 and ends Oct. 31. Contact Tom Fleming at 978-1870.

CANADIAN SOCIETY FOR INTERNATIONAL HEALTH
The training program in international health 1996 is oriented towards young health professionals from the Americas who possess a demonstrated capacity for leadership and an interest in deepening the international dimension of their activities in the health arena. Applicants must have a master's degree in public health or an equivalent graduate degree, including the social sciences as applied to health, plus a minimum of two years' experience in directing programs, projects or services in education, or in health research. The age limit is 35. Applicants must be a national or resident of one of PAHO member countries. English with a working knowledge of Spanish is required. Interested individuals should contact the PAHO/WHO representative office at Canadian Society for International Health, 170 Laurier Ave. W., Ste. 902, Ottawa, Ontario K1P 5V5. Tel. (613) 230-2654, ext. 309; fax (613) 230-8401. Deadline is September 15.

PAN AMERICAN HEALTH ORGANIZATION
The research grants program is one of the instruments that PAHO relies on for developing cooperation activities aimed at solving health problems that have been identified in the region. The program gives preference to applied research, with a special emphasis on projects that are analytical and evaluative. Subject areas are health and development, health systems and services, health promotion and protection, health and the environment and disease prevention and control. The program basically supports public health research — studies that analyze health problems and propose solutions using a population-based approach. Proposals should reach program headquarters six to eight weeks before a meeting of the review committee, held each year in last week of February, third week of June, third week of September and the last week of November. For further information, contact Dr. R. de los Rios, Pan American Health Organization, 525 23rd St., NW, Washington, DC, 20037. Tel. (202) 861-8472.

HUMANITIES & SOCIAL SCIENCES ASSOCIATION FOR CANADIAN STUDIES
The inter-cultural/inter-regional exchange program is designed to promote exchange between Canadian students and encourages and facilitates exchanges of Canadian residents within Canada in the field of Canadian studies at the post-secondary level. Visitors may take part in activities such as teaching, research, lectures and seminars. Conference or colloquia are not included. Deadline is September 15.

MULTICULTURALISM & CITIZENSHIP CANADA
The Canadian ethnic studies program supports research and other scholarly activities in the humanities, social

sciences, communications and fine arts relating to cultural pluralism in Canadian society. There are five components: research grants in ethnic studies; visiting lectureships; Canadian ethnic studies conferences; ethnic studies fellowships; and chairs of study. Deadline is September 29.

MEDICINE & LIFE SCIENCES J.P. BICKELL FOUNDATION
The foundation offers funding for research that is primarily medical in nature. Preference is given to applications that are from newly appointed staff and new, innovative projects receive priority. Grants will not be made to supplement a project grant from another agency with the exception of supplemental grants for essential equipment. Applications are internally reviewed by a UTRS committee as only three U of T applications may be submitted to the foundation. Internal deadline is October 2.

CANCER RESEARCH FOUNDATION OF AMERICA
The foundation will support clinical and basic research projects having to do with cancer prevention and childhood cancer. Funding is offered for research and educational grants and fellowship support. Funding priority for fellowships will be given to the post-doctoral level. There are no citizenship requirements. Deadline is September 1.

JAMES H. CUMMINGS FOUNDATION
The foundation offers funding to further medical research, medical research and medical education; provide services for underprivileged children; and assist aged and infirm persons. Priority is given to medical proposals and preference will be given to requests for equipment. Applications are internally reviewed by a UTRS committee as U of T may submit only one application. Internal deadline is October 2.

GAIRDNER SCIENCE FOUNDATION
Nominations are invited for the Gairdner Foundation International Award and the Whigham award in recognition of individuals whose work or contribution constitutes tangible achievement in the field of medical science. Each nomination should be accompanied by an up-to-date CV and a personal assessment of the nominee's contributions. Deadline is September 29.

GENERAL MOTORS CANCER RESEARCH FOUNDATION
Nominations are invited for the following annual prizes: the Kettering, for the most outstanding recent contribution to the diagnosis or treatment of cancer; the Mott, for the most outstanding recent contribution related to the cause or ultimate prevention of human cancer; and the Sloan, for the most outstanding recent basic science contribution to cancer research. Deadline is October 2.

GENESIS RESEARCH FOUNDATION
The foundation will support research projects in the area of eating disorders and awareness and education projects related to primary and secondary prevention of eating disorders, linking individuals to services, and educational activities to particular groups that provide direct service to the public. The foundation has also announced support for graduate research studentships for 1995-96. Candidates must be accepted into a program of research leading towards an MSc or PhD degree under the supervision of a member of faculty in a department of obstetrics and gynecology at an Ontario medical school. Deadline is September 1.

HEART & STROKE FOUNDATION
New application packages for 1996-97 are now available at UTRS. The deadline for submission of grant-in-aid, career investigator, research scholarship and visiting scientist applications is September 1.

JUVENILE DIABETES FOUNDATION INTERNATIONAL
JDF supports research projects involving the cause, treatment, prevention and/or cure of diabetes and its complications. Career development awards are for candidates with three to seven years of post-doctoral research experience by the commencement of the award. Post-doctoral fellowships are for candidates entering their professional career. Fellows are required to work with a sponsor who can provide a training environment conducive to beginning a career in diabetes research. Deadline for letters of intent is September 15; full application, October 1.

MEDICAL RESEARCH COUNCIL
Equipment grants provide funds for the purchase of specific items (required for the conduct of the proposed research project and should be included in the request for operating or group funds. A separate request for equipment may be made only in that year in which an application for operating funds is not being submitted. Maintenance grants provide funds towards the costs of maintaining instruments that are not shared facilities and should normally be included as part of an application for operating or group funds. A separate request for maintenance of equipment used by a single investigator may be made only in a year in which an application for operating funds is not being submitted. Deadlines are September 15 and March 1. Researchers seeking to train an MRC student in their laboratory must submit their request to nominate only one student as part of their application for an MRC operating or group grant. The student need not be named on the form. Studentships may be requested in addition to support for graduate studies to be paid directly from the operating or group grant. Details are in the current MRC Guidebook.

MRC regards clinical trials as comparisons of clinical outcomes from interventions in health care that use such techniques as randomization and blinding and that employ statistical methodologies to determine such factors as the numbers of patients to enroll for data analysis. MRC will consider the provision of funds for feasibility testing, pilot projects, the expenses of monitoring committees and, when specially justified, salary support for methodology design expertise and/or for the coordination of major multi-centre trials. Deadlines are September 15 and March 1. The provision of funding for university-industry clinical trials is the same as for regular clinical trials but MRC expects that a minimum of two-thirds of the total direct costs will be defrayed by the industrial partner. Application may be made at any time.

MRC has review committees of application forms as well as the current Grants & Awards Guide. The following 1994 forms will still be accepted for submission: MRC 11, operating grant; MRC 25, workshop and symposia; MRC 26, visiting scientist; MRC 33, human subjects; MRC 34, biohazard subjects; MRC 35, animal subjects. The only MRC 18, fellowship; MRC 19, salary support; MRC 20, centennial fellowship; MRC 28, equipment and maintenance; MRC 39, multi-user equipment and maintenance; MRC 36, clinician scientist (phase 1). If researchers are unable to find a sponsor, MRC advises contacting the appropriate number: grants (613) 954-1968, awards (613) 954-1961.

MRC offers various levels of support to investigators with an academic appointment in faculties of Canadian universities or affiliated institutions to initiate and carry out independent health-related research unhampered by full teaching duties expected of a regular member of the university staff. They are MRC scholar awards; MRC scientist awards; MRC senior scientist awards;

and MRC distinguished scientist awards. Details are in the current MRC Grants & Awards Guide. Deadline is September 15.

ONTARIO FRIENDS OF SCHIZOPHRENIA/OMHF
OMHF will provide research grants to support investigations towards understanding the causes of schizophrenia, discovering causes, prevention and developing improved treatments. The Ontario Mental Health Foundation will manage the peer review of all applications submitted and will administer grants made to successful applicants. Use OMHF forms, available from UTRS. Deadline is September 29.

ONTARIO HEALTH CARE EVALUATION NETWORK
The OHCEH program, research transfer, offers one grant for innovative research ideas demonstrating the methods for and benefits of the transfer of health services research to the community of health care planners, policy-makers and practitioners and will administer grants made to successful applicants. Use OMHF forms, available from UTRS. Deadline is September 29.

ONTARIO MENTAL HEALTH FOUNDATION
The foundation will support research work dealing with any of the biological, psychological or social factors that either foster mental health or lead to mental disorder. Applications will be accepted for research projects dealing with any period of the lifespan, any of the factors thought to promote mental health or to cause mental disorder and from any of the relevant scientific specialties. The foundation has a particular interest in studies addressing mental health problems of importance in Ontario. Deadline is September 29.

PEDIATRIC AIDS FOUNDATION (US)
The foundation has announced a request for proposal to fund studies in critical areas of pediatric AIDS: HIV infection; HIV/AIDS; Funders of intent that fall in the following pediatric areas of research will be accepted: transmission of virus from mother to infant; opportunistic infection in pediatric AIDS; disease progression in HIV/AIDS; pathogenesis of HIV infection; co-infection of HIV progression/pathogenesis; effect of HIV on growth and development; mucosal immunity to HIV; characterization of HIV transmitted from mother to infant; nutrition and HIV; characterization of immune response to HIV; central nervous system and HIV; placenta; effect of HIV on organ development; animal models. Deadline is September 7.

PHYSICAL SCIENCES & ENGINEERING CANADIAN MORTGAGE & HOUSING CORPORATION
The objective of the external research program is to encourage and enable individuals in the private and not-for-profit sectors to put forward and carry out their own ideas for innovative, relevant and high-quality housing research. A broad range of topic areas are eligible including those covering social, cultural, economic, technical, environmental, legal, industry-related, policy, program and management and administrative aspects of housing. Deadline is September 26.

MINISTRY OF EDUCATION & TRAINING
The university research incentive fund (URIF) is designed to increase the research capacity and expertise of Ontario universities and to strengthen partner-

ships between the universities and industry. The program will match, up to dollar-for-dollar, eligible investments by the private sector in contractual university-based research. The next URIF deadline for receipt of applications at the ministry is September 29. The internal deadline date at UTRS is September 22.

NATIONAL RESEARCH COUNCIL
The Steacie prize in the natural sciences is Canada's most prestigious award for young scientists and engineers and is given once a year to a person up to 40 years of age for outstanding scientific research. Candidates for the prize must be nominated by colleagues and further details are available at UTRS. Nominations should be sent directly to NRC with a copy to UTRS. Deadline is October 1.

ALFRED P. SLOAN FOUNDATION
Sloan research fellowships are provided to support and recognize young scientists who are endeavouring to set up laboratories and establish independent research projects. The fellowships are designed to identify those who show outstanding promise of making fundamental contributions to new knowledge. Candidates are required to hold a PhD (or equivalent) in chemistry, physics, mathematics, computer science, economics, neuroscience or in a related interdisciplinary field, must be tenure-track members of the regular faculty of a college or university in the US or Canada and must be no more than six years from completion of the most recent PhD or equivalent as of the year of nomination. Nominations must be made by department heads and must be signed by senior scholars and should be sent to: Sloan Research Fellowships, Alfred P. Sloan Foundation, Ste. 2500, 630 Fifth Ave., New York, N.Y. 10111-0242. Deadline is September 15.

UNIVERSITY OF SOUTHERN CALIFORNIA/ALICE C. TYLER TRUST
The Tyler prize for environmental achievement is awarded for environmental science and leadership conferring great benefit upon humankind. For further information contact Frances Putnag at 978-7040. Deadline for nominations is October 2.

UPCOMING DEADLINES
AUGUST 25
Department of Foreign Affairs & International Trade — visiting foreign artists program

SEPTEMBER 1
American Society of Hematology — scholar award
Anatomical Lateral Sclerosis Association (US) — invited full research grant application

Human Frontier Science Program — research grants, long-term fellowships
International Cystic Fibrosis (Mucoviscidosis) Association — research grants, scholarships, professors, training courses

SEPTEMBER 5
Physicians' Services Incorporated — research grants
SEPTEMBER 15
Alcoholic Beverage Medical Research Foundation — research grants
Canadian Genome Analysis & Technology Program — research grants, career development grants (invited full application)

Leukemia Society of America — scholar award, special fellow, fellow (postgraduate applications)
MRC — clinical trials, operating, equipment, maintenance, MRC scholars, MRC scientists, senior scientists, distinguished scientists, career investigators (renewals only), clinician scientists

COMMITTEES

The Bulletin regularly publishes the terms of reference and membership of committees. The deadline for submissions is Monday, two weeks prior to publication.

REVIEW

CANADIAN INSTITUTE FOR THEORETICAL ASTROPHYSICS
A committee has been established to review the Canadian Institute for Theoretical Astrophysics (CITA). Members are: Professor Donald E. Cormack, associate dean, Division III, School of Graduate Studies (chair); Professors Stephen S. Toibe, representative of the dean, Faculty of Arts & Science; J. Richard Bond, Peter G. Martin and N.W. Murray, CITA; S.J. Lilly, Department of Astronomy; W.R. Peltier, Department of Physics; R.R. White, Institute for Environmental Studies; J.S. Bland, Department of Mathematics; and D.G. Cornell, Department of Computer Science; and Andrew Jaffe, post-doctoral fellow, CITA; Andreas T. Warburton, graduate student, Department of Physics; Margaret Fukunaga, administrative assistant, CITA; and Nancy L. Gottschalk, School of Graduate Studies (secretary).

The committee would be pleased to receive comments or submissions from interested persons until September 26. These should be mailed to Professor Donald E. Cormack at the School of Graduate Studies, 65 St. George St.

INSTITUTE OF MEDICAL SCIENCE
A committee has been established to review the Institute of Medical Science. Members are: Professor Johan Hellicar, associate dean, Division IV, School of Graduate Studies (chair); Professors Arthur S. Slutsky, Institute of Medical Science and Department of Medicine; John R. Wherrett, Institute of Medical Science; Paul Garfield, Institute of Medical Science and chair, Department of Psychiatry; Elliot A. Phillipson, Institute of Medical Science and chair, Department of Medicine; Jane Aubin, chair, Department of Anatomy & Cell Biology; Marlene Rabinovich, Department of Pediatrics and Centre for Cardiovascular Research; Cecil C. Yip, Institute of Medical Science, vice-dean (research), Faculty of Medicine and chair, Banning & Best Department of Medical Research; and Morley Gundersen, director, Centre for Industrial Relations; and Graham Slaughter, graduate student, Institute of Medical Science; and Wanda Barrett, School of Graduate Studies (secretary).

The committee would be pleased to receive comments or submissions from interested persons until September 20. These should be mailed to Professor Johan A. Hellicar at the School of Graduate Studies, 65 St. George St.

PHD ORALS

Graduate faculty please call the PhD examinations office at 978-5258 for information regarding time and location for these listings.

WEDNESDAY, AUGUST 23
Mostafa Parniani, Department of Electrical & Computer Engineering, "Small-Signal Stability Analysis and Robust Control
Design of Static VAR Compensators." Prof. M. Irvani.

THURSDAY, AUGUST 24
Eric Degen, Department of Biochemistry, "Involvement of a Novel Molecular Chaperone of the Endoplasmic Reticulum (p98/Calnexin) in the Biogenesis of Class I Histocompatibility Molecules." Prof. D.B. Williams.

FRIDAY, AUGUST 25
Pamela Mac Courtenay-Hall, Department of Philosophy, "Ecologism and Its Critics: A Critical Exploration of Holism in Environmental Ethics and the Science of Ecology." Prof. L. Sumner.

John Kevin Kitchen, Centre for Medieval Studies, "The Image of Sanctity and the Depiction of Holy Women in the Prose Biographies of Venantius Fortunatus — The *Liber Vitae Patrum* of Gregory of Tours and the *Vita Sanctae Radegundis* of Baudonivia: A Comparative Study." Prof. J. Corbett.

MONDAY, AUGUST 28
Diane Marie Irvine, Department of Community Health, "The Response of Social Quality Participation on Hospital Quality Improvement Teams." Prof. P. Leatt and M. Evans.

Dennis Walter Klimchuk, Department of Philosophy, "Involuntariness, Agency and the Criminal Law." Prof. A. Ripstein and I. Hacking.

TUESDAY, AUGUST 29
Heleneida Carvalho Katoka, Faculty of Management, "The Effectiveness of Interorganizational Relations in a Network Organization." Prof. H. Kolodny.

Jim Dimitrios Loukanidis, Department of Mathematics, "Bounded Generation of Certain Chevalley Groups." Prof. V. Murty.

John Robert MacDougall, Department of Medical Biophysics, "Phenotypic Switches in the Malignant Progression of Human Melanoma." Prof. B. Kerbel.

Graham John Meredith, Faculty of Social Work, "Rationing in the Social Welfare Field: A Study of

Rationing Models Using Services to Elderly People with Dementia as an Example." Prof. L. Wells.

THURSDAY, AUGUST 31
Susan Jane Bondy, Department of Community Health, "Patterns of Drinking and the Consequences of Alcohol Use Ontario 1994." Prof. R. Ferrence.

James Michael Nelson, Department of Chemistry, "Synthesis and Ring-Opening Polymerization Behaviour of Inorganic and Organometallic Ring Systems." Prof. I. Mannes.

TUESDAY, SEPTEMBER 5
Sarah Jane Childs, Department of Medical Biophysics, "New Mammalian Members of the P-Glycoprotein Family and Their Evolution." Prof. V. Ling.

Stephen Karrer O'Leary, Department of Electrical & Computer Engineering, "Density of States and Optical Absorption in Amorphous Semiconductors." Prof. S. Zukotynski.

Kent Vernon Rondeau, Department of Community Health, "Organization, Structure and Commitment in Hospital Volunteer Associations." Prof. P. Leatt.

The Bulletin

invites readers to submit information regarding awards and honours as well as death notices of staff and faculty. Please include as much background information as possible.

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TRUTH SEEKERS

As suppliers of information and knowledge, newspapers and universities have much in common

BY NANNERL KEOHANE

From an address to the American Society of Newspaper Editors April 6, 1995, entitled A Sharper Focus: American Higher Education in the 21st Century.

I BELIEVE THAT HIGHER EDUCATION AND THE press have several things in common, despite the tensions that arise between our respective institutions. Each of us is basically in the "information business," and we have proud traditions of expanding knowledge and educating the public to be enlightened and involved citizens. At a time when we are all reminded that the power of the future belongs to those who know — and that the biggest gaps in our societies will open up between those who have access to information and know how to use it, and those who do not — being in the knowledge business is a particularly powerful, and particularly weighty, responsibility.

Each of us enjoys considerable freedom from government interference compared with our counterparts in other countries. The United States is unusual in having no position of minister of information, although each president has had a spinmeister or two who tried to shape information before an audience of doubting Helen Thomases. Similarly, scholars at American universities have enjoyed a degree of academic freedom — the ability to conduct research and to teach in ways they deem appropriate to their fields of expertise without external interference — that like the press freedoms you enjoy are the envy of the world.

Partly because of that freedom, universities and newspapers are made up of people who seek the truth — or at least purport to — and who have an insatiable curiosity and a generally healthy scepticism that leads us to ask tough questions and to seek real answers, as unpopular as they may be.

Neither higher education nor the press is monolithic, even though many in our society think they are. The diversity of the American press has been a source of great strength, providing largely unfettered information through many channels. In recent days, however, surveys show that the American people have difficulty distinguishing between television news or infotainment shows like *Hard Copy* or supermarket tabloids and what once was called the legitimate press of record.

HIGHER EDUCATION IN THE UNITED STATES CONSISTS OF some 3,200 institutions — publicly subsidized and independent, liberal arts colleges and research universities and institutes, junior colleges and proprietary schools for morticians, beauticians and truck drivers. Yet when the public thinks of higher education, and often when the press reports on it, little of the vitality and difference which makes our system of higher education so strong seems to emerge.

And our institutions have at least one other common characteristic: a regrettable tendency towards arrogance, based only in part on feeling that we are often misunderstood by our publics. When we're challenged, higher education too often goes into a defensive posture and claims undue interference with academic freedom while the fourth estate falls back on freedom of the press. For all of our sophistication and genuine concern for the truth, we all too often fail to deal sympathetically with possible truth that cuts too close to home.

Universities and the press also face similar challenges these days. Most serious among them is an erosion of public confidence and an increasing scepticism about our ethics, motives and value to society. It is true that this is part of a larger tendency towards corrosive cynicism that affects all institutions, but we can't leave it at that. The behaviour of some of our institutions and the people who practise our professions — both yours and mine — have stretched the public's ability to believe that our institutions exist to serve their needs, from athletic scandals and stories about non-teaching faculty members at universities to the media's inability to stop itself from drinking its daily gallon of O.J.

We are both also deeply affected by the changes in



technology that are altering the landscape we inhabit, with bewildering rapidity. The new information technologies of computers and multimedia have made our work much more complex (and expensive), threatening the comfortable stability of our professions since the printing press became the technological base for everything we do. Your newsrooms and production operations are being fundamentally transformed by computerization. Just this past week I received an e-mail from the editor of *The Chronicle*, Duke's independent student newspaper, informing me that the paper had gone online, accessible on the World Wide Web, and has established Quad Talk, a campus bulletin board service designed to foster debate and discussion about news and views at Duke. The prospect of going online with your morning edition, if you have not already done so, raises fascinating questions about what counts as an authoritative record of the daily news.

UNIVERSITY CAMPUSES

FEEL MUCH LESS

POLITICALLY CORRECT

AND MUCH MORE DIVERSE

AND ARGUMENTATIVE THAN

COMMON WISDOM ALLOWS

We in the universities face similar and complex technological challenges: the computerization of library material, the vast need for sophisticated and expensive new laboratory technologies for researchers who will solve the mysteries of Alzheimer's and AIDS and eventually find their cures. We

see possibilities opened by distance learning, which deny the necessity of any "institution" in other than virtual reality, as well as the great potential enhancement to teaching provided by computer technologies in every field, not just in the sciences and engineering but in the classics and art history. Thus we are both in rapid transformation to an electronic age. How we will look when we emerge is not yet clear.

These new technologies provide splendid opportunities to do our work more efficiently, more powerfully, with new ranges of imaginative creativity opened up to us and those we serve. But they also require us to rethink fundamentally the way we provide those services and to some degree the very nature of the services themselves.

Partly because these new technologies are so expensive, we also face daunting financial challenges in both our enterprises. The costs of doing business are rising significantly and we are all under pressure to do what we do more efficiently. Colleges and universities are downsizing, re-engineering, with a zeal that belies the notorious contempt academic folks once expressed for corporate values and the business mentality, to administer ourselves more efficiently and hold down rising costs.

NEWSPAPERS, OF COURSE, FACE MOUNTING PRESSURES to control costs to meet expectations of owners and shareholders. At the same time you are competing vigorously with television news in all its forms as well as with radio talk shows and an expanding niche-based magazine industry. We have both become big business and we are increasingly held accountable to traditional business criteria, an uncomfortable awareness that is deeply at odds with the proud professionalism and idealistic creativity that has typically marked our practitioners in the past. As editors you grapple with the painful consequences of this fact, just as we do in university presidencies.

We also face together less tangible challenges that touch upon our fundamental sense of identity. Universities have been tarred with the brush of "political correctness" at a time when most of us are trying to grapple openly with thorny questions about what today's students — and tomorrow's leaders — need to know, and how they should learn it, to prepare them for life and work in the very different world of the 21st century. University campuses these days feel much less politically correct and much more bracingly diverse, argumentative and messy than the common wisdom allows. There is much truth in the old definition of a faculty member as "someone who thinks otherwise." But too many people who know little about us accept the "pc" stereotype as truth. They fail to recognize these contemporary controversies for what they are: unavoidable growing pains of traditional institutions adapting to the burgeoning of knowledge in every field and adapting as well to an increasingly diverse faculty and student body, which reflect with considerable fidelity our increasingly pluralistic and multifaceted American society.

Many of you in the newsrooms face similar stereotypes as the redoubts of old-fashioned liberalism in a society filled with people who don't exactly know what they stand for politically, but who feel strongly about it nonetheless, and are quite sure that it isn't liberalism, whatever that may be.

Against the background of all these challenges we have in common, we each face distinctive threats. Two are of particular concern to those of us on campus who believe that knowledge widely understood and wisely used will help shape the society in which our children will live and determine our economic strength in a competitive global economy: the threats to accessibility for needy and middle-class students to a college education and threats to the historic partnerships that have made shared investments in research the key to the quality of life of our people and a strong economic foundation for our nation.

Nannerl Keohane is president of Duke University in North Carolina.